



**Aerospace Medicine
and Biology**
**1979 Cumulative
Index**

NASA SP-7011 (202)
January 1980

**CASE FILE
COPY**

National Aeronautics and Space Administration

Aerospace Medicine & Biology

SPECIAL NOTICE

The abstract sections of the monthly supplements of *Aerospace Medicine and Biology* can be bound separately. Individual abstracts can be located readily by means of the page numbers given at each entry, e.g., p0239 N79-26762. To assist the user in binding Supplements SP-7011(190) through SP-7011(201), a title page is included in the back of this Cumulative index.

NASA SP-7011 (202)

**A CUMULATIVE INDEX
TO
A CONTINUING BIBLIOGRAPHY ON**

**AEROSPACE MEDICINE
AND BIOLOGY**

**This Cumulative Index supersedes the indexes
contained in supplements [SP-7011 (190)
through SP-7011 (201)], published by NASA
during 1979.**

INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011(190) through NASA SP-7011(201) of *Aerospace Medicine and Biology: A Continuing Bibliography*, NASA SP-7011, by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

1. NASA entries by their *STAR* accession numbers (N79-10000 series)
2. AIAA entries by their *IAA* accession numbers (A79-10000 series)

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject index, a personal author index, and a corporate source index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

DOSE
 U DOSAGE
AIRLINERS
 U COMMERCIAL AIRCRAFT
 U PASSENGER AIRCRAFT

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

FATIGUE (BIOLOGY)
 NT AUDITORY FATIGUE
 NT FLIGHT FATIGUE
 NT MUSCULAR FATIGUE

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items, this is because subject terms can readily include more than one class of document. For example:

BIOLOGICAL EFFECT
 Vibratory force effect upon
 biological systems, particularly
 human organism.
 Biological effect of cosmic and
 solar radiations on human
 body at high altitudes.

illustrates a case where two references on different topics are listed under the same subject term.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in translation schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.

and

YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF BIOLOGY. (Source citation entry)

NEW MEXICO STATE UNIV., LAS CRUCES. (Source index entry)

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The page-number range of each Supplement appears on the inside front cover of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired Supplement number will be found in the first column. For example:

Page 191 will be found in Supplement 196.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in *Aerospace Medicine and Biology* supplements is found in the Introduction to the most currently issued monthly supplement.

TABLE OF CONTENTS

	Page
Subject Index	A-1
Personal Author Index	B-1
Corporate Source Index	C-1

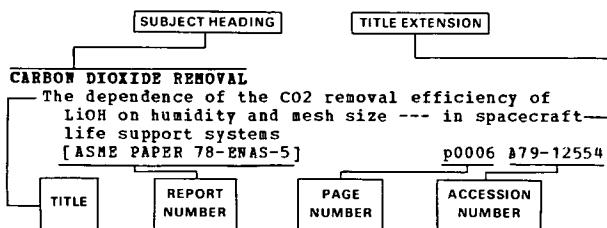
SUBJECT INDEX

AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography

JANUARY 1980

1979 Cumulative Index

Typical Subject Index Listing



The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of the document content, a title extension is added, separated from the title by three hyphens. The NASA or AIAA accession number is included in each entry to assist the user in locating the abstract in the abstract section of this supplement. If applicable, a report number is also included as an aid in identifying the document.

A

- A-7 AIRCRAFT**
A7 training effectiveness through performance analysis --- carrier landing instruction [AD-A056230] p0031 N79-11728
- ABILITIES**
Time-sharing is not a unitary ability [AD-A056632] p0019 N79-10739
Psychophysiological effects of aging: Developing a functional age index for pilots. 2: Taxonomy of psychological factors [FAA-AM-78-16] p0054 N79-13685
- ABIOGENESIS**
On the reality of extraterrestrial biogenesis [IAF PAPER 78-A-51] p0003 A79-11344
Lifecloud: The origin of life in the universe --- Book p0061 A79-17123
Porphyrin-like compounds genesis under simulated abiotic conditions p0099 A79-22078
Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions p0105 A79-24520
HCN did not condense to give heteropolypeptides on the primitive earth p0133 A79-26542
Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide p0162 A79-29938
A review of recent concepts of the problem of the origin of life p0221 A79-36041
Origin of life; Proceedings of the Second ISSOL Meeting and Fifth ICOL Meeting, Kyoto, Japan, April 5-10, 1977 p0203 A79-37919
Prebiotic molecular evolution p0203 A79-37928
Synthesis of amino acids under primitive earth conditions in the presence of clay p0203 A79-37930
Prebiotic condensation reactions using cyanamide p0203 A79-37932
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums p0203 A79-37935
Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere

- p0203 A79-37937
Prebiotic condensation of oligonucleotide p0204 A79-37945
An approach to the origin of self-replicating system. I - Intermolecular interactions p0204 A79-37948
Quantitative aspects of the effect of weak interaction during chemical evolution p0204 A79-37959
Coacervate drops as a model for precellular structures p0204 A79-37960
Coacervate drops - Primitive forms of precells p0204 A79-37962
Takeover mechanisms and early biochemical evolution p0205 A79-37965
Some characteristic features of the origin and evolution of the amino acid composition of proteins - A theoretical consideration p0206 A79-37973
Nucleotide-binding site data and the origin of the genetic code p0206 A79-37974
The study of the origin of life - Results and prospects p0206 A79-37981
The importance of the physical laws on the origin and evolution of life p0207 A79-37983
A critical assessment of the origin of life p0207 A79-37985
Inverse assimilation - A general principle of evolution of planetary surfaces p0207 A79-37989
A proposal concerning the origin of life on the planet earth p0253 A79-45641
Polymers produced by heating an amino acid mixture in sea water enriched with transition elements p0254 A79-46461
Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988] p0081 N79-14782
- ABNORMALITIES**
NT PSYCHOSES
- ABSORBENTS**
Molecular sieve oxygen generating system - The argon question /A brief review/ --- effects of 5 percent Ar in breathing gas p0274 A79-49994
Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248] p0053 N79-12710
Environmental test and evaluation of a molecular sieve on-board oxygen generation system [AD-A061531] p0125 N79-17559
- ABSORBERS (EQUIPMENT)**
Electrochemically regenerable carbon dioxide absorber [NASA-CR-152099] p0262 N79-29794
- ABSORPTION BANDS**
U ABSORPTION SPECTRA
- ABSORPTION SPECTRA**
Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319
- ABSORPTION SPECTROSCOPY**
Iodine imaging using spectral analysis --- radiography for visualization of small blood vessels p0294 A79-51034
- ABUNDANCE**
The evolution of the environment and its influence on the evolution of life

ACCELERATION (PHYSICS)

SUBJECT INDEX

- Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0099 A79-22076
ACCELERATION (PHYSICS)
 NT ANGULAR ACCELERATION
 NT HIGH ACCELERATION
 NT HIGH GRAVITY ENVIRONMENTS
 NT IMPACT ACCELERATION
 A numerical method of film analysis with differentiation --- curve fitting with harmonic analysis p0061 A79-17585
 Evaluation of assisted positive-pressure breathing on +Gz tolerance p0266 A79-47336
 Helmet weight simulator [NASA-CASE-LAP-12320-1] p0223 N79-25761
 Animal endurance to recurrent impact accelerations p0246 N79-27833
 Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
 A head injury model p0286 N79-31918
ACCELERATION STRESSES (PHYSIOLOGY)
 NT CENTRIFUGING STRESS
 Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
 Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
 Development of space biology experiments for the Space Shuttle - A student's perspective [AAS PAPER 78-134] p0099 A79-21252
 Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
 Mitral prolapse and acceleration --- in aircraft pilots p0103 A79-23951
 Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting p0127 A79-24634
 Head acceleration and psychomotor performance --- related to crash accident survival rates p0135 A79-27559
 Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728
 Oculogravie illusion in response to straight-ahead acceleration of a CP-104 aircraft p0164 A79-30660
 Cerebral accident subsequent to G-force loading - A case report p0165 A79-30664
 Positive pressure breathing as a protective technique in +Gz acceleration p0201 A79-37132
 Motion sickness in cats - A symptom rating scale used in laboratory and flight tests p0202 A79-37711
 Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714
 Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G p0227 A79-41185
 Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0234 A79-43205
 +Gz tolerance correlation with clinical parameters p0235 A79-43213
 Heat and acute dehydration effects on acceleration response p0237 A79-43705
 Reproducibility of +Gz tolerance testing p0267 A79-47337
 Modeling human tracking performance in a high G-stress environment p0269 A79-48012
 Functional anatomy of vertebral column with reference to load bearing areas p0272 A79-49732
 Biodynamics of aviation stresses on the vertebral column p0272 A79-49733
 Assessment of spinal disabilities in relation to flying p0272 A79-49736
 A new application of LBNP to measure orthostatic tolerance before and after 0-G simulation /water immersion/ [IAF PAPER 79-87] p0302 A79-53290
 Cardiac arrhythmia following postimmersion +G sub z accelerations p0015 N79-10710
 A method of evaluating the pupillary reaction to vestibular stimuli p0016 N79-10717
 Effect of accelerations combined with radiation on occurrence of gene mutations in the drosophila p0016 N79-10720
 Medical qualification procedures for hazardous-duty aeromedical research p0026 N79-11695
 Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122] p0052 N79-12706
 Role of vestibular system in behavior of animals submitted to prolonged slow rotation p0074 N79-14734
 Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
 Specialized physiological studies in support of manned space flight [NASA-CR-151876] p0111 N79-16542
 Stress factors on pilot performance. A bibliography with abstracts [NTIS/PS-78/1289/4] p0145 N79-18589
 Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
 A lower body negative pressure box for +Gz simulation in the upright seated position [AD-A069326] p0259 N79-28868
 Third Symposium on Motion Sickness p0313 N79-33814
ACCELERATION TOLERANCE
 Relaxed +Gz tolerance in healthy men - Effect of age p0067 A79-18956
 Hemodynamic indices under orthostatic and vestibular effects p0098 A79-20692
 Incapacitation time for +Gz-induced loss of consciousness p0102 A79-23475
 Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction p0103 A79-23953
 Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances p0127 A79-24628
 Tolerance of domestic fowl to high sustained +Gz p0127 A79-24630
 Effects of brief exposure of domestic fowl to very intense acceleration fields p0127 A79-24631
 Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries p0183 A79-33632
 Pathophysiology of overloads: Bibliography of Soviet publications --- Russian book p0200 A79-36385
 Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
 Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
 Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
 +Gz tolerance correlation with clinical parameters p0235 A79-43213

SUBJECT INDEX**ACOUSTICS**

- Heat and acute dehydration effects on acceleration response
p0237 A79-43705
- Evaluation of assisted positive-pressure breathing on +Gz tolerance
p0266 A79-47336
- Delayed effects of alcohol ingestion on + Gz tolerance
p0272 A79-49730
- Effect of microwave radiation on the resistance of rats to transverse acceleration loading
p0275 A79-50496
- Modification of cardiac function by synchronized oscillating acceleration
p0278 A79-50908
- Technique for simulating G-induced tunnel vision
p0299 A79-52286
- An examination of statistical impact acceleration injury prediction models based on -Gx accelerator data from subhuman primates [AD-A057276]
p0026 N79-11690
- Molecular determinants for the prediction and survival of ischemic anoxic stress pathology
p0027 N79-11700
- Effect of age on relaxed +G sub z tolerance of aircrewmen
p0030 N79-11719
- Effects of hyperhydration on human endurance of orthostatic and LBNP tests
p0072 N79-14721
- Balance training of the equilibrium organ and its effect on flight strategy
p0242 N79-27074
- The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +Gsub z acceleration [FPPRC-1362]
p0248 N79-27856
- The effect of acceleration and seat back angle on performance of a reaction time task [FPPRC-1364]
p0248 N79-27857
- The influence of seat back angle on acceleration tolerance [FPPRC-1365]
p0248 N79-27858
- A lower body negative pressure box for +Gz simulation in the upright seated position [AD-A069326]
p0259 N79-28868
- A subhuman primate restraint system [AD-A069607]
p0279 N79-30915
- Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection -- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253]
p0284 N79-31901
- Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub z stress
p0286 N79-31916
- Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles
p0286 N79-31917
- Some human responses to repeated +G sub z pulses
p0288 N79-31928
- External respiration and gas exchange reactions of man during rotation on a short-arm centrifuge
p0313 N79-33812
- ACCIDENT INVESTIGATION**
NT AIRCRAFT ACCIDENT INVESTIGATION
- ACCIDENT PREVENTION**
Investigation of techniques to reduce electrostatic discharge susceptibility of EED's containing plastic plugs [AD-A059982]
p0093 N79-15638
- Three decades of USAF efforts to reduce human error accidents, 1947-1977
p0290 N79-31943
- Human factors in production and prevention of aircraft accidents due to disorientation in flight
p0291 N79-31952
- ACCIDENT PRONENESS**
Current role of alcohol as a factor in civil aircraft accidents
p0136 A79-27561
- ACCIDENTS**
NT AIRCRAFT ACCIDENTS
NT AUTOMOBILE ACCIDENTS
NT BIRD-AIRCRAFT COLLISIONS
- ACCLIMATIZATION**
NT ALTITUDE ACCLIMATIZATION
- NT COLD ACCLIMATIZATION
NT HEAT ACCLIMATIZATION
- ACCOMMODATION**
NT VISUAL ACCOMMODATION
- ACCUMULATORS**
NT SOLAR COLLECTORS
- ACETIC ACID**
Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2]
p0077 N79-14755
- ACETYL COMPOUNDS**
Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of *Saccharomyces cerevisiae*
p0162 A79-30125
- Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates
p0121 N79-17527
- ACHIEVEMENT**
A construct validation of adaptive achievement testing [AD-A063148]
p0173 N79-20742
- ACID BASE EQUILIBRIUM**
Analysis of Pco₂ differences during rebreathing due to slow pH equilibration in blood
p0067 A79-18958
- Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics
p0133 A79-27105
- Acid-base homeostasis in the human system [NASA-CR-160222]
p0212 N79-24640
- ACIDS**
NT ACETIC ACID
NT AMINO ACIDS
NT ASCORBIC ACID
NT DEOXYRIBONUCLEIC ACID
NT FATTY ACIDS
NT GLUTAMINE
NT HYDROCYANIC ACID
NT LEUCINE
NT NUCLEIC ACIDS
NT PEPTIDES
NT PROTOPROTEINS
NT RIBONUCLEIC ACIDS
NT SULFURIC ACID
NT THYMIDINE
NT TRYPTOPHAN
- ACOUSTIC GENERATORS**
U SOUND GENERATORS
- ACOUSTIC MEASUREMENTS**
NT NOISE MEASUREMENT
Techniques of cumulative quantitative characterization of the thorax using audiosonic methods
p0240 N79-26769
- ACOUSTIC PROPERTIES**
NT ACOUSTIC SCATTERING
Guidelines for designing machines and devices for acoustic vibrations from the point of view of the physiological and psychological properties of the human organism
p0236 A79-43608
- Techniques of cumulative quantitative characterization of the thorax using audiosonic methods
p0240 N79-26769
- ACOUSTIC RADIATION**
U SOUND WAVES
- ACOUSTIC SCATTERING**
Diffraction-based characterization of biological tissue with ultrasound --- acoustic scattering from liver tissue
p0054 N79-13683
- An investigation of the pulse-scatter imaging technique for medical ultrasonic imaging and tissue characterization
p0211 N79-24628
- ACOUSTIC SIMULATION**
Startle reactions to simulated sonic booms - Influence of habituation, boom level and background noise
p0097 A79-20502
- ACOUSTIC VIBRATIONS**
U SOUND WAVES
- ACOUSTICS**
NT BIOACOUSTICS
NT PSYCHOACOUSTICS

- Overall loudness of steady sounds according to theory and experiment [NASA-PP-1001] N79-25753
- Acoustic attitude orientation p0314 N79-33816
- ACOUSTO-OPTICS**
- Analyses for noninvasive monitoring of arterial blood pressure by I/ phono cuff-sphygmomanometry, for discrete measurements and /I/ arterial ultrasonic imaging, for continuous measurements p0294 A79-51037
- ACQUISITION**
- NT DATA ACQUISITION
- NT TARGET ACQUISITION
- ACRYLIC RESINS**
- Trace contaminant studies of HSC adsorbent [NASA-CR-160148] p0177 N79-21769
- ACTH**
- I ADRENOCORTICOTROPIN (ACTH)
- ACTINIDE SERIES**
- NT AMERICIUM 241
- ACTIVATED CARBON**
- Mechanisms of activated carbon degradation by perspiration [AD-A059872] p0080 N79-14777
- ACTIVITY (BIOLOGY)**
- An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424
- Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
- Determination of a generalized output index of a biological experiment after multiple tests p0076 N79-14744
- Suppression of the immune response by ultrasound p0142 N79-18560
- Observability of electrical heart activity studied with singular value decomposition [TH-78-E-81] p0144 N79-18584
- Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- Biologically active short-chain peptides [FOA-C-40063-C1] p0261 N79-29785
- Immunobiological reactivity of the body under hyperbaric and hypobaric conditions p0310 N79-33790
- Effect of restricted activity on vestibular function p0312 N79-33802
- ACUITY**
- NT HYPEROPIA
- NT VISUAL ACUITY
- ADAPTATION**
- NT ALTITUDE ACCLIMATIZATION
- NT COLD ACCLIMATIZATION
- NT DARK ADAPTATION
- NT HEAT ACCLIMATIZATION
- NT LIGHT ADAPTATION
- NT RETINAL ADAPTATION
- On the man's adaptation to the operator's work under stressful conditions of space flight [IAF PAPER 78-A-56] p0003 A79-11345
- Voluntary movement control and adaptation to cross-coupled stimulation --- motion sickness avoidance p0009 A79-12860
- Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425
- 3'5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- Structure of biorhythms as one of the criteria for physiological adaptability of the human organism p0097 A79-20653
- Cyclic nucleotides and adaptation of the organism --- Russian Book p0133 A79-26500
- Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- Energetic aspects of adaptation --- Russian book on metabolic responses to stress p0167 A79-31906
- Some forms of adaptation to extreme influences in the blood system p0256 A79-46679
- Ecological physiology of animals. I - General ecological physiology and physiology of adaptations --- Russian book p0275 A79-50474
- The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia p0296 A79-51116
- Reciprocal interaction between the photopic and scotopic systems of the visual analyzer in man p0296 A79-51327
- Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76] p0301 A79-53285
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
- Problems of human adaption to spaceflight p0157 N79-19985
- Medical science in Siberia: Oxygen exchange in the Far North [NASA-TM-75391] p0211 N79-24630
- Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
- ADAPTIVE CONTROL**
- NT LEARNING MACHINES
- Models for automated motor skills training --- computer controlled adaptive instruction p0035 A79-13182
- Communications management by the remote system - An adaptive approach --- modeling of RPV autopilot/operator systems p0041 A79-13226
- How does the saccadic eye movement controller adapt for pathological states p0046 A79-14961
- Adaptive supervisory control of remote manipulation p0046 A79-14987
- Adaptive control of a robotic manipulator p0046 A79-15001
- Robots and artificial intelligence --- Russian book p0061 A79-17569
- Augmented feedback in adaptive motor skill training p0062 A79-18208
- The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156
- A structural model of the adaptive human pilot [AIAA 79-1784] p0252 A79-45411
- Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
- A formal model of the adaptive and discrete control behaviors of human operators [AD-A059039] p0059 N79-13717
- A construct validation of adaptive achievement testing [AD-A063148] p0173 N79-20742
- An adaptive controller which displays human operator limitations for a fighter type aircraft p0177 N79-21767
- An adaptive controller which displays human operator limitations for a fighter type aircraft [AD-A066193] p0223 N79-25763
- ADAPTIVE CONTROL SYSTEMS**
- II ADAPTIVE CONTROL
- ADDITION RESINS**
- NT ACRYLIC RESINS
- ADENINES**
- NT RIBONUCLEIC ACIDS
- ADENOSES**
- 3'5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- Prebiotic condensation of oligonucleotide p0204 A79-37945
- ADRENAL GLAND**
- Beta-adrenoceptor antagonists: Central effects p0027 N79-11702

- Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite p0108 N79-16517
- Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
- ADRENAL METABOLISM**
- Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat p0005 A79-12474
- Sustained operations and sleep deprivation - Effects on indices of stress p0009 A79-12859
- Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
- Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylcyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- Metabolic adrenergic changes during submaximal exercise and in the recovery period in man p0305 A79-54267
- Effects of LBNP on catecholamines and adrenal cortex p0110 N79-16532
- ADRENERGICS**
- Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia p0097 A79-20621
- Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold p0128 A79-24636
- Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639
- Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain p0162 A79-29925
- Effect of the blockade of hypothalamic adrenergic structures on thermoregulatory reactions p0167 A79-31950
- Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- Metabolic adrenergic changes during submaximal exercise and in the recovery period in man p0305 A79-54267
- Nonshivering thermogenesis in normal and dystrophic muscle p0054 N79-13680
- ADRENOCORTICOTROPIN (ACTH)**
- Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
- ADSORPTION**
- NT CHEMISORPTION
- Trace contaminant studies of HSC adsorbent [NASA-CR-160148] p0177 N79-21769
- AERATION**
- Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of *Saccharomyces cerevisiae* p0162 A79-30125
- AERIAL RECONNAISSANCE**
- Real-time reconnaissance systems simulator p0139 A79-28175
- AEROBES**
- Time course of O₂-pulse during various tests of aerobic power p0297 A79-52024
- Studies of microbial flora and immunity of Salyut-3 crew p0192 N79-23629
- AEROBIOLOGY**
- Oxygen affinity of blood in altitude Sherpas p0268 A79-47854
- The metabolic demand and oxygen supply of the heart - Physiologic and clinical considerations p0300 A79-52894
- Influence of skin temperature on sweating and aerobic performance during severe work p0305 A79-54268
- AERODYNAMIC BUZZ**
- U FLUTTER
- AERODYNAMIC CHARACTERISTICS**
- NT AERODYNAMIC STABILITY
- Aerodynamic forces exerted on an articulated human body subjected to windblast [AD-A059023] p0055 N79-13688
- AERODYNAMIC FORCES**
- Correlation of mechanism of extremity injury and aerodynamic factors in ejections from F-4 aircraft p0284 N79-31904
- AERODYNAMIC STABILITY**
- The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance p0089 N79-15608
- AEROMOBILISME**
- Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving p0010 A79-12866
- Case report - Intracardial gas bubbles in relation to altitude decompression chokes p0011 A79-12871
- Application of a bubble formation model to decompression sickness in rats and humans p0102 A79-23473
- Doppler detection of thresholds for decompression-induced venous gas emboli in the awake rat p0202 A79-37707
- AEROMAGNETO FLUTTER**
- U FLUTTER
- AERONAUTICAL ENGINEERING**
- Development of aerospace-aviation equipment described p0081 N79-14795
- AERONAUTICS**
- Can man be calculated - Biological models in aeronautical medicine and engineering p0161 A79-29589
- Aerospace highlights and potential medical applications --- in manned space flight p0293 A79-51027
- Experience with periodic aviation medical examinations p0026 N79-11696
- AEROSOLS**
- NT FOG
- Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251
- Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715
- AEROSPACE ENGINEERING**
- NT AERONAUTICAL ENGINEERING
- Planetary protection guidelines for Outer Planet missions p0005 A79-12511
- Psychologists vs engineers --- flight simulators training requirements p0132 A79-26499
- The biomedical implications of engineering in space p0166 A79-31122
- Development of aerospace-aviation equipment described p0081 N79-14795
- AEROSPACE ENVIRONMENTS**
- Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
- Caloric and exercise requirements of space flight - Biostereometric results from Skylab p0128 A79-24637
- Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639
- Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India p0201 A79-37135
- Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science p0228 A79-41702
- Closed ecology in space from a bioengineering perspective p0228 A79-41703
- Serendipitous solution to the problem of culturing *Arabidopsis* plants in sealed containers for

- spaceflights of long duration p0229 A79-41704
- Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue --- COSMOS 782 p0020 N79-11653
- Responses of crown gall tissue to the space environment: Tumor development and anatomy --- cosmos 782 p0020 N79-11654
- Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782 p0020 N79-11655
- Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782 p0020 N79-11656
- Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206 p0023 N79-11677
- Analysis of body form using biostereometrics [NASA-CR-160173] p0195 N79-23654
- Preparation of guinea pig macrophage for electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814
- Space biology and aerospace medicine, v. 13, no. 3, 1979 [JPRS-73784] p0243 N79-27817
- AEROSPACE MEDICINE**
- Medical control in prolonged space flights [IAF PAPER 78-63] p0003 A79-11226
- Space medicine - A prognosis for future research [IAF PAPER 78-ST-17] p0003 A79-11364
- Spacelab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129] p0041 A79-14081
- Medical characteristics of the Spacelab life support system [DGLR PAPER 78-130] p0041 A79-14082
- Joint testing of the RAF high altitude protective ensemble p0044 A79-14434
- Value and limits of the electrocardiogram in aviation medicine evaluations p0048 A79-15495
- Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II [DGLR PAPER 78-183] p0070 A79-20024
- Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176] p0099 A79-21273
- The European life sciences experiments onboard the first Spacelab mission p0100 A79-22254
- The use of aviation pathology and aviation medicine as proof of liability and damage p0100 A79-22704
- Relations between research and instruction in physiology and aerospace ergonomics in the military health services p0104 A79-23960
- Ruptured arteriovenous anomaly in a former woman astronaut candidate p0128 A79-24640
- Aviation-medicine appraisal as part of the fitness regulations in transportation p0129 A79-25373
- Space biology and medicine p0132 A79-26344
- Physiological aspects of flight --- Book p0134 A79-27298
- Aeromedical implications of the X-Chrom lens for improving color vision deficiencies p0135 A79-27556
- Aeromedical aspects of otolaryngology p0136 A79-27562
- Can man be calculated - Biological models in aeronautical medicine and engineering p0161 A79-29589
- Survey on eye comfort in aircraft. I - Flight attendants p0165 A79-30665
- The biomedical implications of engineering in space p0166 A79-31122
- Medicobiological research within the framework of the scientific program 'Intercosmos' p0181 A79-32658
- Incidence of cardiovascular problems among flying personnel and their evaluation p0182 A79-33186
- Ensuring medical fitness on entry and during service in aircrew in IAF p0182 A79-33187
- Electrocardiographic abnormalities in Air Force personnel p0182 A79-33191
- Disability pattern amongst civil aircrew p0182 A79-33192
- Cases of probable Aero Otitis interna p0183 A79-33194
- Biological effects of electromagnetic fields p0184 A79-33712
- Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
- Pathophysiology of overloads: Bibliography of Soviet publications --- Russian book p0200 A79-36385
- Aerobiotelemetry from a fighter aircraft p0200 A79-37131
- Positive pressure breathing as a protective technique in +Gz acceleration p0201 A79-37132
- Incidence of spinal disability amongst IAF pilots - Follow up of 38 cases p0201 A79-37133
- Vertebral fractures in Gnat ejections p0201 A79-37134
- Correlation of binocular vision test results with synaptophore evaluation p0201 A79-37136
- Influence of Beta-Blockade on asymptomatic ST-T wave changes - A follow up study p0201 A79-37137
- Aeromedical aspects of flying training with special reference to instructor pupil relationship p0201 A79-37139
- Physiologic and performance measurements in simulated airborne combined stress environments p0202 A79-37710
- Psychiatric education in aerospace medicine p0202 A79-37712
- Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714
- Fighter index of thermal stress /PITS/ - guidance for hot-weather aircraft operations p0202 A79-37715
- Space biology and aerospace medicine p0226 A79-40734
- The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases p0256 A79-46600
- The application of vectorcardiography to aerospace medicine p0256 A79-46602
- Blood pressure variability of the individual in orthostatic testing p0265 A79-47328
- Aero Medical Society of India, Annual Meeting, 21st, Bangalore, India, December 15, 16, 1978, Proceedings p0271 A79-49726
- Aviation and radiation hazards p0271 A79-49727
- Assessment of burns in accident fatalities p0272 A79-49729
- Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease p0272 A79-49731
- Functional anatomy of vertebral column with reference to load bearing areas p0272 A79-49732
- Biodynamics of aviation stresses on the vertebral column p0272 A79-49733
- Spinal injury pattern due to ejections p0272 A79-49734
- Radiological diagnosis of spinal injuries and deformities

- Assessment of spinal disabilities in relation to flying p0272 A79-49735
 Effects of congenital and noncongenital alcoholic beverages on a clinical ataxia test battery p0272 A79-49736
 Estimated body rotation as a predictor of motion sickness susceptibility p0273 A79-49984
 Aerospace highlights and potential medical applications --- in manned space flight p0273 A79-49990
 Automatic audiometry in the practice of flight-personnel examination p0273 A79-49994
 Time course of O₂-pulse during various tests of aerobic power p0273 A79-51027
 Comparison of physiological effects of head-down tilting and immersion on the human body p0273 A79-51028
 Cold water survival suits for aircraf p0273 A79-51029
 Passive resistive torques about long bone axes of major human joints p0273 A79-51084
 Medical barofunction testing of aviators with otorhinolaryngologic disease p0273 A79-51085
 Technique for simulating G-induced tunnel vision p0273 A79-51086
 Role of n-aminobenzoic acid in repairing UV and gamma radiation damage p0273 A79-51087
 Preliminary selection of candidates for space flights [IAF PAPER 79-83] p0273 A79-51088
 Equipment for surgical interventions and childbirth in weightlessness [IAF PAPER 79-97] p0273 A79-51089
 Selection, training, and health care of working specialists for Shuttle/Spacelab and future space station missions [IAF PAPER 79-99] p0273 A79-51090
 The biomedical implications of extended duration zero-g extravehicular activities [IAF PAPER 79-ST-06] p0273 A79-51091
 Eye torsion in response to a tilted visual stimulus p0273 A79-51092
 Evidence for increased intrathoracic fluid volume in man at high altitude p0273 A79-51093
 Space biology and aerospace medicine, vol. 12, no. 5, 1978 [JPRS-72115] p0273 A79-51094
 An examination of statistical impact acceleration injury prediction models based on -Gx accelerator data from subhuman primates [AD-A057276] p0273 A79-51095
 Prospective Medicine Opportunities in Aerospace Medicine --- conferences [AGARD-CP-231] p0273 A79-51096
 The Canadian Forces Life Quality Improvement Programme p0273 A79-51097
 The role of physical examinations and education in prospective medicine p0273 A79-51098
 Medical qualification procedures for hazardous-duty aeromedical research p0273 A79-51099
 Experience with periodic aviation medical examinations p0273 A79-51100
 A prospective medicine approach to the problem of ischemic vascular disease in the USAF p0273 A79-51101
 The significance of rhythm disturbances in asymptomatic persons p0273 A79-51102
 Distinguishing borderline hypertensives from normotensives: A clinical study of 300 airmen p0273 A79-51103
 Molecular determinants for the prediction and survival of ischemic anoxic stress pathology p0273 A79-51104
 Psychosocial aspects of syncope and vertigo in aircraf p0273 A79-51105
 Beta-adrenoceptor antagonists: Central effects p0273 A79-51106
 The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement p0273 A79-51107
 Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0273 A79-51108
 Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0273 A79-51109
 Follow-up and transversal study of vital capacity and PEV sub values among personnel of the Belgian Army forces p0273 A79-51110
 Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs p0273 A79-51111
 Long term pulmonary function patterns in the aviator: The thousand Aviator study p0273 A79-51112
 Mechanics of breathing during graded exercise measured with the bodyplethysmograph p0273 A79-51113
 Standardized examination methods in ergometry p0273 A79-51114
 Coronary atherosclerosis and fitness for flying p0273 A79-51115
 Detection of coronary artery disease in apparently healthy, asymptomatic aircraf members using thallium-201 myocardial perfusion scintigraphy p0273 A79-51116
 The significance of I wave abnormalities p0273 A79-51117
 Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0273 A79-51118
 Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0273 A79-51119
 Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers p0273 A79-51120
 The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers p0273 A79-51121
 Effect of age on relaxed +G sub z tolerance of aircrafmen p0273 A79-51122
 Reproducibility of human cardiovascular responses to orthostatic stress p0273 A79-51123
 Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness p0273 A79-51124
 Normal and pathological cardiovascular findings in applicants to the Air Force service p0273 A79-51125
 Evaluation of cardiac risk and subject response to ameliorative efforts p0273 A79-51126
 The impact of coronary vascular risk factors on professional aircraf license loss in the United Kingdom p0273 A79-51127
 Cardiovascular diseases as a cause of unfitness for flying service in aircraf of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention p0273 A79-51128
 Cardiovascular fitness of pilots of transport aircraft p0273 A79-51129
 Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487] p0273 A79-51130
 The 14th Annual Conference on Manual Control --- digital simulation of human operator dynamics [NASA-CP-2060] p0273 A79-51131
 Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826] p0273 A79-51132
 Man in space and on earth [NASA-TM-75602] p0273 A79-51133
 p0273 A79-51134
 p0273 A79-51135
 p0273 A79-51136
 p0273 A79-51137
 p0273 A79-51138
 p0273 A79-51139
 p0273 A79-51140
 p0273 A79-51141
 p0273 A79-51142
 p0273 A79-51143
 p0273 A79-51144
 p0273 A79-51145
 p0273 A79-51146
 p0273 A79-51147
 p0273 A79-51148
 p0273 A79-51149
 p0273 A79-51150
 p0273 A79-51151
 p0273 A79-51152
 p0273 A79-51153
 p0273 A79-51154
 p0273 A79-51155
 p0273 A79-51156
 p0273 A79-51157
 p0273 A79-51158
 p0273 A79-51159
 p0273 A79-51160
 p0273 A79-51161
 p0273 A79-51162
 p0273 A79-51163
 p0273 A79-51164
 p0273 A79-51165
 p0273 A79-51166
 p0273 A79-51167
 p0273 A79-51168
 p0273 A79-51169
 p0273 A79-51170
 p0273 A79-51171
 p0273 A79-51172
 p0273 A79-51173
 p0273 A79-51174
 p0273 A79-51175
 p0273 A79-51176
 p0273 A79-51177
 p0273 A79-51178
 p0273 A79-51179
 p0273 A79-51180
 p0273 A79-51181
 p0273 A79-51182
 p0273 A79-51183
 p0273 A79-51184
 p0273 A79-51185
 p0273 A79-51186
 p0273 A79-51187
 p0273 A79-51188
 p0273 A79-51189
 p0273 A79-51190
 p0273 A79-51191
 p0273 A79-51192
 p0273 A79-51193
 p0273 A79-51194
 p0273 A79-51195
 p0273 A79-51196
 p0273 A79-51197
 p0273 A79-51198
 p0273 A79-51199
 p0273 A79-51200
 p0273 A79-51201
 p0273 A79-51202
 p0273 A79-51203
 p0273 A79-51204
 p0273 A79-51205
 p0273 A79-51206
 p0273 A79-51207
 p0273 A79-51208
 p0273 A79-51209
 p0273 A79-51210
 p0273 A79-51211
 p0273 A79-51212
 p0273 A79-51213
 p0273 A79-51214
 p0273 A79-51215
 p0273 A79-51216
 p0273 A79-51217
 p0273 A79-51218
 p0273 A79-51219
 p0273 A79-51220
 p0273 A79-51221
 p0273 A79-51222
 p0273 A79-51223
 p0273 A79-51224
 p0273 A79-51225
 p0273 A79-51226
 p0273 A79-51227
 p0273 A79-51228
 p0273 A79-51229
 p0273 A79-51230
 p0273 A79-51231
 p0273 A79-51232
 p0273 A79-51233
 p0273 A79-51234
 p0273 A79-51235
 p0273 A79-51236
 p0273 A79-51237
 p0273 A79-51238
 p0273 A79-51239
 p0273 A79-51240
 p0273 A79-51241
 p0273 A79-51242
 p0273 A79-51243
 p0273 A79-51244
 p0273 A79-51245
 p0273 A79-51246
 p0273 A79-51247
 p0273 A79-51248
 p0273 A79-51249
 p0273 A79-51250
 p0273 A79-51251
 p0273 A79-51252
 p0273 A79-51253
 p0273 A79-51254
 p0273 A79-51255
 p0273 A79-51256
 p0273 A79-51257
 p0273 A79-51258
 p0273 A79-51259
 p0273 A79-51260
 p0273 A79-51261
 p0273 A79-51262
 p0273 A79-51263
 p0273 A79-51264
 p0273 A79-51265
 p0273 A79-51266
 p0273 A79-51267
 p0273 A79-51268
 p0273 A79-51269
 p0273 A79-51270
 p0273 A79-51271
 p0273 A79-51272
 p0273 A79-51273
 p0273 A79-51274
 p0273 A79-51275
 p0273 A79-51276
 p0273 A79-51277
 p0273 A79-51278
 p0273 A79-51279
 p0273 A79-51280
 p0273 A79-51281
 p0273 A79-51282
 p0273 A79-51283
 p0273 A79-51284
 p0273 A79-51285
 p0273 A79-51286
 p0273 A79-51287
 p0273 A79-51288
 p0273 A79-51289
 p0273 A79-51290
 p0273 A79-51291
 p0273 A79-51292
 p0273 A79-51293
 p0273 A79-51294
 p0273 A79-51295
 p0273 A79-51296
 p0273 A79-51297
 p0273 A79-51298
 p0273 A79-51299
 p0273 A79-51300
 p0273 A79-51301
 p0273 A79-51302
 p0273 A79-51303
 p0273 A79-51304
 p0273 A79-51305
 p0273 A79-51306
 p0273 A79-51307
 p0273 A79-51308
 p0273 A79-51309
 p0273 A79-51310
 p0273 A79-51311
 p0273 A79-51312
 p0273 A79-51313
 p0273 A79-51314
 p0273 A79-51315
 p0273 A79-51316
 p0273 A79-51317
 p0273 A79-51318
 p0273 A79-51319
 p0273 A79-51320
 p0273 A79-51321
 p0273 A79-51322
 p0273 A79-51323
 p0273 A79-51324
 p0273 A79-51325
 p0273 A79-51326
 p0273 A79-51327
 p0273 A79-51328
 p0273 A79-51329
 p0273 A79-51330
 p0273 A79-51331
 p0273 A79-51332
 p0273 A79-51333
 p0273 A79-51334
 p0273 A79-51335
 p0273 A79-51336
 p0273 A79-51337
 p0273 A79-51338
 p0273 A79-51339
 p0273 A79-51340
 p0273 A79-51341
 p0273 A79-51342
 p0273 A79-51343
 p0273 A79-51344
 p0273 A79-51345
 p0273 A79-51346
 p0273 A79-51347
 p0273 A79-51348
 p0273 A79-51349
 p0273 A79-51350
 p0273 A79-51351
 p0273 A79-51352
 p0273 A79-51353
 p0273 A79-51354
 p0273 A79-51355
 p0273 A79-51356
 p0273 A79-51357
 p0273 A79-51358
 p0273 A79-51359
 p0273 A79-51360
 p0273 A79-51361
 p0273 A79-51362
 p0273 A79-51363
 p0273 A79-51364
 p0273 A79-51365
 p0273 A79-51366
 p0273 A79-51367
 p0273 A79-51368
 p0273 A79-51369
 p0273 A79-51370
 p0273 A79-51371
 p0273 A79-51372
 p0273 A79-51373
 p0273 A79-51374
 p0273 A79-51375
 p0273 A79-51376
 p0273 A79-51377
 p0273 A79-51378
 p0273 A79-51379
 p0273 A79-51380
 p0273 A79-51381
 p0273 A79-51382
 p0273 A79-51383
 p0273 A79-51384
 p0273 A79-51385
 p0273 A79-51386
 p0273 A79-51387
 p0273 A79-51388
 p0273 A79-51389
 p0273 A79-51390
 p0273 A79-51391
 p0273 A79-51392
 p0273 A79-51393
 p0273 A79-51394
 p0273 A79-51395
 p0273 A79-51396
 p0273 A79-51397
 p0273 A79-51398
 p0273 A79-51399
 p0273 A79-51400
 p0273 A79-51401
 p0273 A79-51402
 p0273 A79-51403
 p0273 A79-51404
 p0273 A79-51405
 p0273 A79-51406
 p0273 A79-51407
 p0273 A79-51408
 p0273 A79-51409
 p0273 A79-51410
 p0273 A79-51411
 p0273 A79-51412
 p0273 A79-51413
 p0273 A79-51414
 p0273 A79-51415
 p0273 A79-51416
 p0273 A79-51417
 p0273 A79-51418
 p0273 A79-51419
 p0273 A79-51420
 p0273 A79-51421
 p0273 A79-51422
 p0273 A79-51423
 p0273 A79-51424
 p0273 A79-51425
 p0273 A79-51426
 p0273 A79-51427
 p0273 A79-51428
 p0273 A79-51429
 p0273 A79-51430
 p0273 A79-51431
 p0273 A79-51432
 p0273 A79-51433
 p0273 A79-51434
 p0273 A79-51435
 p0273 A79-51436
 p0273 A79-51437
 p0273 A79-51438
 p0273 A79-51439
 p0273 A79-51440
 p0273 A79-51441
 p0273 A79-51442
 p0273 A79-51443
 p0273 A79-51444
 p0273 A79-51445
 p0273 A79-51446
 p0273 A79-51447
 p0273 A79-51448
 p0273 A79-51449
 p0273 A79-51450
 p0273 A79-51451
 p0273 A79-51452
 p0273 A79-51453
 p0273 A79-51454
 p0273 A79-51455
 p0273 A79-51456
 p0273 A79-51457
 p0273 A79-51458
 p0273 A79-51459
 p0273 A79-51460
 p0273 A79-51461
 p0273 A79-51462
 p0273 A79-51463
 p0273 A79-51464
 p0273 A79-51465
 p0273 A79-51466
 p0273 A79-51467
 p0273 A79-51468
 p0273 A79-51469
 p0273 A79-51470
 p0273 A79-51471
 p0273 A79-51472
 p0273 A79-51473
 p0273 A79-51474
 p0273 A79-51475
 p0273 A79-51476
 p0273 A79-51477
 p0273 A79-51478
 p0273 A79-51479
 p0273 A79-51480
 p0273 A79-51481
 p0273 A79-51482
 p0273 A79-51483
 p0273 A79-51484
 p0273 A79-51485
 p0273 A79-51486
 p0273 A79-51487
 p0273 A79-51488
 p0273 A79-51489
 p0273 A79-51490
 p0273 A79-51491
 p0273 A79-51492
 p0273 A79-51493
 p0273 A79-51494
 p0273 A79-51495
 p0273 A79-51496
 p0273 A79-51497
 p0273 A79-51498
 p0273 A79-51499
 p0273 A79-51500
 p0273 A79-51501
 p0273 A79-51502
 p0273 A79-51503
 p0273 A79-51504
 p0273 A79-51505
 p0273 A79-51506
 p0273 A79-51507
 p0273 A79-51508
 p0273 A79-51509
 p0273 A79-51510
 p0273 A79-51511
 p0273 A79-51512
 p0273 A79-51513
 p0273 A79-51514
 p0273 A79-51515
 p0273 A79-51516
 p0273 A79-51517
 p0273 A79-51518
 p0273 A79-51519
 p0273 A79-51520
 p0273 A79-51521
 p0273 A79-51522
 p0273 A79-51523
 p0273 A79-51524
 p0273 A79-51525
 p0273 A79-51526
 p0273 A79-51527
 p0273 A79-51528
 p0273 A79-51529
 p0273 A79-51530
 p0273 A79-51531
 p0273 A79-51532
 p0273 A79-51533
 p0273 A79-51534
 p0273 A79-51535
 p0273 A79-51536
 p0273 A79-51537
 p0273 A79-51538
 p0273 A79-51539
 p0273 A79-51540
 p0273 A79-51541
 p0273 A79-51542
 p0273 A79-51543
 p0273 A79-51544
 p0273 A79-51545
 p0273 A79-51546
 p0273 A79-51547
 p0273 A79-51548
 p0273 A79-51549
 p0273 A79-51550
 p0273 A79-51551
 p0273 A79-51552
 p0273 A79-51553
 p0273 A79-51554
 p0273 A79-51555
 p0273 A79-51556
 p0273 A79-51557
 p0273 A79-51558
 p0273 A79-51559
 p0273 A79-51560
 p0273 A79-51561
 p0273 A79-51562
 p0273 A79-51563
 p0273 A79-51564
 p0273 A79-51565
 p0273 A79-51566
 p0273 A79-51567
 p0273 A79-51568
 p0273 A79-51569
 p0273 A79-51570
 p0273 A79-51571
 p0273 A79-51572
 p0273 A79-51573
 p0273 A79-51574
 p0273 A79-51575
 p0273 A79-51576
 p0273 A79-51577
 p0273 A79-51578
 p0273 A79-51579
 p0273 A79-51580
 p0273 A79-51581
 p0273 A79-51582
 p0273 A79-51583
 p0273 A79-51584
 p0273 A79-51585
 p0273 A79-51586
 p0273 A79-51587
 p0273 A79-51588
 p0273 A79-51589
 p0273 A79-51590
 p0273 A79-51591
 p0273 A79-51592
 p0273 A79-51593
 p0273 A79-51594
 p0273 A79-51595
 p0273 A79-51596
 p0273 A79-51597
 p0273 A79-51598
 p0273 A79-51599
 p0273 A79-51600
 p0273 A79-51601
 p0273 A79-51602
 p0273 A79-51603
 p0273 A79-51604
 p0273 A79-51605
 p0273 A79-51606
 p0273 A79-51607
 p0273 A79-51608
 p0273 A79-51609
 p0273 A79-51610
 p0273 A79-51611
 p0273 A79-51612
 p0273 A79-51613
 p0273 A79-51614
 p0273 A79-51615
 p0273 A79-51616
 p0273 A79-51617
 p0273 A79-51618
 p0273 A79-51619
 p0273 A79-51620
 p0273 A79-51621
 p0273 A79-51622
 p0273 A79-51623
 p0273 A79-51624
 p0273 A79-51625
 p0273 A79-51626
 p0273 A79-51627
 p0273 A79-51628
 p0273 A79-51629
 p0273 A79-51630
 p0273 A79-51631
 p0273 A79-51632
 p0273 A79-51633
 p0273 A79-51634
 p0273 A79-51635
 p0273 A79-51636
 p0273 A79-51637
 p0273 A79-51638
 p0273 A79-51639
 p0273 A79-51640
 p0273 A79-51641
 p0273 A79-51642
 p0273 A79-51643
 p0273 A79-51644
 p0273 A79-51645
 p0273 A79-51646
 p0273 A79-51647
 p0273 A79-51648
 p0273 A79-51649
 p0273 A79-51650
 p0273 A79-51651
 p0273 A79-51652
 p0273 A79-51653
 p0273 A79-51654
 p0273 A79-51655
 p0273 A79-51656
 p0273 A79-51657
 p0273 A79-51658
 p0273 A79-51659
 p0273 A79-51660
 p0273 A79-51661
 p0273 A79-51662
 p0273 A79-51663
 p0273 A79-51664
 p0273 A79-51665
 p0273 A79-51666
 p0273 A79-51667
 p0273 A79-51668
 p0273 A79-51669
 p0273 A79-51670
 p0273 A79-51671
 p0273 A79-51672
 p0273 A79-51673
 p0273 A79-51674
 p0273 A79-51675
 p0273 A79-51676
 p0273 A79-51677
 p0273 A79-51678
 p0273 A79-51679
 p0273 A79-51680
 p0273 A79-51681
 p0273 A79-51682
 p0273 A79-51683
 p0273 A79-51684
 p0273 A79-51685
 p0273 A79-51686
 p0273 A79-51687
 p0273 A79-51688
 p0273 A79-51689
 p0273 A79-51690
 p0273 A79-51691
 p0273 A79-51692
 p0273 A79-51693
 p0273 A79-51694
 p0273 A79-51695
 p0273 A79-51696
 p0273 A79-51697
 p0273 A79-51698
 p0273 A79-51699
 p0273 A79-51700
 p0273 A79-51701
 p0273 A79-51702
 p0273 A79-51703
 p0273 A79-51704
 p0273 A79-51705
 p0273 A79-51706
 p0273 A79-51707
 p0273 A79-51708
 p0273 A79-51709
 p0273 A79-51710
 p0273 A79-51711
 p0273 A79-51712
 p0273 A79-51713
 p0273 A79-51714
 p0273 A79-51715
 p0273 A79-51716
 p0273 A79-51717
 p0273

- Operational Helicopter Aviation Medicine
[AGARD-CP-255] p0148 N79-19605
- A description of the recent neuropsychological selection of pilots for land forces light aircraft
p0151 N79-19633
- Radiological examination of the Rachis and fitness for employment as a helicopter pilot
p0151 N79-19634
- Providing an eye separator on a color cathode tube --- enhancing visual acuity
p0152 N79-19639
- Vertebral pains in helicopter pilots --- symptomatology and radiology
p0153 N79-19656
- Problems of human adaption to spaceflight
p0157 N79-19985
- Technical evaluation report on the Aerospace Medical Panel London Specialists' Meeting, Fall 1977 --- disease prevention, flight fitness, and findings in cardiology and pulmonary function
[AGARD-AR-131] p0171 N79-20729
- Prospective medicine opportunities in aerospace medicine
p0171 N79-20730
- Specific findings in cardiology and pulmonary function with special emphasis on assessment criteria for flying
p0171 N79-20731
- Space biology and aerospace medicine, no. 2, 1979 [JPRS-73377] p0190 N79-23627
- Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body
p0192 N79-23628
- Studies of microbial flora and immunity of Salyut-3 crew
p0192 N79-23629
- Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite --- effects of space flight stress
p0192 N79-23631
- Biomedical application in space, pilot program in the southern California region [NASA-CR-1601711] p0195 N79-23653
- Validation of a model for investigating red cell mass changes during weightlessness [NASA-CR-160188] p0211 N79-24634
- Systems identification and application systems development for monitoring the physiological and health status of crewmen in space [NASA-CR-160235] p0212 N79-24642
- A brief review of space flight calcium metabolism: Results and methodologies [NASA-CR-160198] p0217 N79-25715
- Index to FAA Office of Aviation Medicine reports: 1961 through 1978 [AD-A067983] p0240 N79-26773
- Space biology and aerospace medicine, v. 13, no. 3, 1979 [JPRS-73784] p0243 N79-27817
- Operator performance and localized muscle fatigue in a simulated space vehicle control task [NASA-TM-58220] p0259 N79-28867
- BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft [NASA-TM-58217] p0261 N79-29784
- Injury mechanisms analysis in aircraft accidents p0286 N79-31913
- Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins p0287 N79-31925
- Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254] p0290 N79-31942
- Medical and operational factors of accidents in advanced fighter aircraft p0290 N79-31944
- The psychologist in aircraft accident investigation --- pilot personality and performance p0291 N79-31946
- Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826
- Space Biology and Aerospace Medicine, no. 4, 1979 [JPRS-74330] p0310 N79-33789
- Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792
- Control of vertical position after flights aboard the Salyut-4 orbital station p0311 N79-33793
- Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite p0311 N79-33795
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs [AD-A070299] p0314 N79-33821
- The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845
- AEROSPACE SCIENCES**
- Life sciences and space research XVII; Proceedings of the Open Meeting of the Working Group on Space Biology, May 29-June 10, 1978, and Symposium on Gravitational Physiology, Innsbruck, Austria, June 2, 3, 1978 p0228 A79-41701
- AEROSPACE TECHNOLOGY TRANSFER**
- Medical technology transfer p0048 A79-16138
- APCS (CONTROL SYSTEM)
U AUTOMATIC FLIGHT CONTROL
- AGC (CONTROL)
U AUTOMATIC GAIN CONTROL
- AGE FACTOR
Relaxed +Gz tolerance in healthy men - Effect of age p0067 A79-18956
- Age trends in the cardiovascular dynamics of aircrewm en p0136 A79-27560
- A simple technique for evaluation of vitality loss in aging mice, by testing their muscular coordination and vigor p0274 A79-50205
- Psychophysiological effects of aging: Developing a functional age index for pilots. 3: Measurement of pilot performance [FAA-AM-78-27] p0123 N79-17546
- AGING (BIOLOGY)
A study of axonal degeneration in the optic nerves of aging mice p0005 A79-12123
- Visual acuity of the aging hyperopic eye in the intermediate range p0037 A79-13198
- Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
- Ageing and flying fitness p0182 A79-33190
- Analysis of population mortality kinetics with application to the longevity followup of the Navy's '1,000 aviators' p0234 A79-43207
- Quantitative analysis of mating behavior in aging male Drosophila Melanogaster p0252 A79-44799
- A simple technique for evaluation of vitality loss in aging mice, by testing their muscular coordination and vigor p0274 A79-50205
- Effects of weightlessness on the embryonic development and aging of Drosophila p0022 N79-11670
- Effects of weightlessness on the genetics and aging process of drosophila melanogaster p0023 N79-11673

- Effect of age on relaxed +G sub z tolerance of aircrewmens
p0030 N79-11719
- Psychophysiological effects of aging: Developing a functional age index for pilots. 2: Taxonomy of psychological factors [PAA-AM-78-16] p0054 N79-13685
- Psychophysiological effects of aging: Developing a functional age index for pilots. 3: Measurement of pilot performance [PAA-AM-78-27] p0123 N79-17546
- AGRICULTURAL AIRCRAFT**
- Initial training and retraining of technical agricultural flight personnel Eye-ball control p0227 A79-41166 p0270 A79-49225
- AGRICULTURE**
- Short-range movement of major agricultural pests p0148 N79-19594
- AIR**
- NT EXPIRED AIR Evaluation of oxidizability of air in closed areas p0313 N79-33808
- AIR BAG RESTRAINT DEVICES**
- Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1 [PB-290328/4] p0178 N79-21775
- AIR CONDITIONING EQUIPMENT**
- Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22] p0007 A79-12571
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity [NASA-CASE-GSC-12191-1] p0156 N79-19688
- AIR DEFENSE**
- AAA gunnermodel based on observer theory --- predicting a gunner's tracking response p0087 N79-15594
- AIR NAVIGATION**
- NT AREA NAVIGATION
- AIR POLLUTION**
- Developmental and hematological responses to low level exposure of carbon monoxide in mice p0048 A79-16099
- Response of the rat erythrocyte to ozone exposure p0067 A79-18963
- Effects of ozone inhalation on work performance and maximal oxygen uptake p0133 A79-27103
- Assessment of human exposures to atmospheric benzene [PB-284203/7] p0051 N79-12701
- Human health damages from mobile source air pollution: A delphi method, volume 1 [PB-288319/7] p0145 N79-18585
- Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2 [PB-288320/5] p0145 N79-18586
- Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
- Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
- AIR PURIFICATION**
- Technology advancement of an oxygen generation subsystem [NASA-CR-152257] p0261 N79-28883
- AIR SAMPLING**
- New combined aspirator for sampling developed p0170 N79-20722
- AIR SICKNESS**
- U MOTION SICKNESS
- AIR TO AIR MISSILES**
- Subjective motion discrimination in the simulator for air-to-air combat [AD-A059742] p0079 N79-14770
- AIR TO AIR REFUELING**
- Visual system for the Boom Operator Part Task Trainer --- KC-135 aerial refueling task simulator p0137 A79-28162
- Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view [AD-A070231] p0308 N79-32832
- AIR TO AIR ROCKETS**
- U AIR TO AIR MISSILES
- AIR TRAFFIC**
- A preliminary study of the air traffic controller's 'picture' p0221 A79-36227
- AIR TRAFFIC CONTROL**
- Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control p0061 A79-17695
- Detection of conflict states in air traffic control of airport zones p0166 A79-31181
- Short-term memory factors in ground controller/pilot communication p0181 A79-32626
- The effect of increased monitoring load on vigilance performance using a simulated radar display p0236 A79-43674
- Visual search performance during simulated radar observation with and without a sweepline [AD-A068020] p0281 N79-30938
- AIR TRAFFIC CONTROLLERS (PERSONNEL)**
- Morbidity experience of air traffic control personnel - 1967-77 p0101 A79-23466
- The next decade - Development, training, supervision p0102 A79-23584
- A controller's eye view of color p0102 A79-23596
- A preliminary study of the air traffic controller's 'picture' p0221 A79-36227
- Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- Development of a performance criterion for air traffic personnel research through air traffic control simulation [AD-A058082] p0031 N79-11727
- The morbidity experience of air traffic control personnel, 1967-1977 [AD-A056053] p0051 N79-12696
- Perpetual factors involved in performance of air traffic controllers using a microwave landing system p0092 N79-15628
- Air traffic controller health change study [PAA-AM-78-39] p0122 N79-17534
- Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [PAA-AM-78-40] p0144 N79-18581
- The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection [FAA-AM-78-36] N79-25752
- The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices [AD-A068581] p0281 N79-30932
- A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel [AD-A067826] p0281 N79-30933
- AIRBORNE EQUIPMENT**
- NT AIRBORNE/SPACEBORNE COMPUTERS
- NT LIGHT AIRBORNE MULTIPURPOSE SYSTEM
- A Canadian approach to high altitude protection --- fighter pilot garmentry and high pressure masks p0045 A79-14435
- Light weight solid state helmet symbol display and position system p0046 A79-15177
- U.S. Navy development of an on-board oxygen generation /OBOG/ system p0183 A79-33634
- Molecular sieve oxygen generating system - The argon question /A brief review/ --- effects of 5 percent Ar in breathing gas p0274 A79-49994
- AIRBORNE/SPACEBORNE COMPUTERS**
- Man/terminal interaction evaluation of computer operating system command and control service concepts --- in Spacelab

Computer aided control of a mechanical arm	p0064 A79-18224	AIRCRAFT COMPARTMENTS
	p0275 A79-50334	A trade-off analysis design tool: Aircraft interior noise-motion/passenger satisfaction model p0112 N79-16549
AIRCRAFT ACCIDENT INVESTIGATION		
The use of aviation pathology and aviation medicine as proof of liability and damage	p0100 A79-22704	AIRCRAFT CONTROL
Human error accidents - Some case studies --- for aircraft	p0183 A79-33193	NT HELICOPTER CONTROL
Assessment of burns in accident fatalities	p0272 A79-49729	Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit p0038 A79-13205
The psychologist in aircraft accident investigation --- pilot personality and performance	p0291 N79-31946	A computer-based simulator simulator --- computer-assisted pilot training p0039 A79-13215
The information in aircraft accidents investigation	p0291 N79-31947	The assessment of rotary wing aviator precision performance during extended helicopter flights p0040 A79-13221
AIRCRAFT ACCIDENTS		Experimental and psychological investigations in aviation and astronautics --- Russian book p0041 A79-13998
NT BIRD-AIRCRAFT COLLISIONS		Increasing pilot's performance capacity during flight through use of a control element serving as information carrier p0042 A79-14097
False hypothesis and the pilot --- aircraft accidents due to decision making errors [SAE PAPER 780528]	p0001 A79-10399	Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972
An inflatable restraint system --- for helicopter crash protection	p0044 A79-14408	The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft p0061 A79-17683
Physiological biorhythm as a correlate of pilot error accidents and incidents	p0065 A79-18228	Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
Current role of alcohol as a factor in civil aircraft accidents	p0136 A79-27561	Control logic design criteria for multifunction switching devices --- in aircraft p0064 A79-18223
Accident injuries and flying fitness	p0182 A79-33189	A comparison of kinesthetic-tactile and visual displays via a critical tracking task --- for aircraft control p0162 A79-29720
Effect of fiber and dye degradation products /PDP/ on burn wound healing	p0298 A79-52277	Pilot workload during final approach in congested airspace p0269 A79-48014
Analysis of naval aviation head and neck injuries (1969-1978)	p0026 N79-11689	Prediction, evaluation, and specification of flying qualities by means of step target tracking p0088 N79-15604
[AD-A057657]		The determination of the operating range of a twin-grip control yoke through biomechanical means p0089 N79-15609
US Army aviation fatigue-related accidents, 1971-1977	p0171 N79-20725	Influences of joystick spring resistance on the execution of simple and complex positioning movements p0119 N79-17517
[AD-A062486]		
Injury mechanisms analysis in aircraft accidents	p0286 N79-31913	AIRCRAFT DESIGN
Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins	p0287 N79-31925	NT HELICOPTER DESIGN
Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254]	p0290 N79-31942	Factors that affect display size criteria in a cockpit display system p0063 A79-18212
Three decades of USAF efforts to reduce human error accidents, 1947-1977	p0290 N79-31943	A trade-off analysis design tool: Aircraft interior noise-motion/passenger satisfaction model p0112 N79-16549
Medical and operational factors of accidents in advanced fighter aircraft	p0290 N79-31944	The design of air combat aircraft p0114 N79-16566
Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force	p0290 N79-31945	Ground attack p0114 N79-16567
Analyses of midair collisions in German airspace: Methodology and results	p0291 N79-31949	Contributions of psychophysiological techniques to aircraft design and other operational problems [AGARD-AG-244] p0290 N79-31941
Pilot incapacity in flight	p0291 N79-31950	AIRCRAFT DETECTION
Geographical disorientation and flight safety	p0291 N79-31951	Predicting aircraft detectability p0208 A79-38358
Human factors in production and prevention of aircraft accidents due to disorientation in flight	p0291 N79-31952	The limited range of the human eye for optical aircraft acquisition p0291 N79-31948
Between incident and accident	p0292 N79-31953	Analyses of midair collisions in German airspace: Methodology and results p0291 N79-31949
AIRCRAFT BASES		
U MILITARY AIR FACILITIES		
AIRCRAFT CABINS		
U AIRCRAFT COMPARTMENTS		
AIRCRAFT CARRIERS		
A7 training effectiveness through performance analysis --- carrier landing instruction [AD-A056230]	p0031 N79-11728	AIRCRAFT EQUIPMENT
AIRCRAFT COMMUNICATION		NT EJECTION SEATS
Effects of phase manipulation on speech intelligibility through communication headsets --- light aircraft radio communication	p0164 A79-30654	Observer performance using a video display --- in simulated air to ground target acquisition tasks p0039 A79-13217
Short-term memory factors in ground controller/pilot communication	p0181 A79-32626	Oxygen systems for Army helicopters p0044 A79-14421
		Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248] p0053 N79-12710
		Aircraft personnel restraint subsystems definition of deficiencies and requirements

[AD-A058995] US Navy development of an On-Board Oxygen Generation (OBOG) system [AD-A063958]	p0053 N79-12711 p0197 N79-24656	p0116 N79-17488 Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue
AIRCRAFT HAZARDS Biodynamic effects of canopy loss in the TF-15 aircraft	p0163 A79-30651	p0150 N79-19623 Visual effects of helicopter manoeuvre on weapon aiming performance
Detection of conflict states in air traffic control of airport zones	p0166 A79-31181	p0150 N79-19626 Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator
Aviation and radiation hazards	p0271 A79-49727	p0151 N79-19638 The relationship between Air Combat Maneuvering Range (ACMR) output measures and initial visual acquisition performance
AIRCRAFT INSTRUMENTS NT APPROACH INDICATORS NT AUTOMATIC PILOTS Contrast enhancement using local area brightness and gain control --- of airborne CRT display	p0037 A79-13199	p0173 N79-20744 Estimation of aircraft target motion using pattern recognition orientation measurements
Four years of color research for visual displays --- human performance consideration for use in aircraft	p0039 A79-13210	p0177 N79-21764 A study of pilot/observed interaction in aligning a helicopter with a target
Response surface methodology as a manipulator of complex task difficulty --- for computer generated aircraft area navigation control-display systems evaluation	p0039 A79-13211	p0283 N79-30945 AIRCRAFT NOISE NT SONIC BOOMS Responses of teachers to aircraft noise
Transfer of a computer-assisted instrument procedures trainer to flight	p0039 A79-13216	p0103 A79-23881 Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection --- German book
Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller [DGLR PAPER 78-149]	p0042 A79-14094	p0162 A79-29763 Sources of noise stress on flying personnel
AIRCRAFT LANDING NT CRASH LANDING Flight management research utilizing an oculometer -- pilot scanning behavior during simulated approach and landing	p0001 A79-10389	p0227 A79-41169 Temporary threshold shift from transportation noise
The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing	p0063 A79-18210	p0254 A79-46286 The influence of intermittent aircraft noise on sleep. I
An investigation of pictorial and symbolic aircraft displays for landing	p0063 A79-18211	p0255 A79-46599 A trade-off analysis design tool: Aircraft interior noise-motion/passenger satisfaction model
Transfer of landing skill after training with supplementary visual cues	p0138 A79-28167	p0112 N79-16549 Aircraft sonic boom: Biological effects. A bibliography with abstracts
A7 training effectiveness through performance analysis --- carrier landing instruction [AD-A056230]	p0031 N79-11728	p0214 N79-24650 Effect of helicopter noise on passenger annoyance
Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141]	p0317 N79-33844	p0241 N79-26782 AIRCRAFT PERFORMANCE NT HELICOPTER PERFORMANCE The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight
AIRCRAFT MAINTENANCE Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics	p0064 A79-18217	p0038 A79-13204 Predictive validity of flight simulators as a function of simulator motion
AIRCRAFT MANEUVERS An Air Combat Effectiveness Study /ACES/ program	p0040 A79-13222	p0181 A79-32627 AIRCRAFT PILOTS Visual workload of the copilot/navigator during terrain flight
Development of automated performance measures for introductory air combat maneuvers	p0040 A79-13223	p0038 A79-13206 NASA flight management research
A study of progress in flying performance revealed from daily check sheets in a primary flight training course. III - Comparison of progress between two courses	p0134 A79-27119	p0040 A79-13218 The helmet protects the aviator's head - Or does it
Predictive validity of flight simulators as a function of simulator motion	p0181 A79-32627	p0044 A79-14429 Selection and techniques for analysis of indices of visual data reception. II --- aircraft pilot eye movements
Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet fighter	p0209 A79-38821	p0047 A79-15494 Time estimation as a technique to measure workload --- of aircraft pilot in flight simulation
RNAV procedural turn anticipation techniques experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi offset tracking procedures [AD-A060501]	p0085 N79-15583	p0062 A79-18203 On the relationship between pilot rating and pilot dynamics. I - An experimental approach
Flight experience with manually controlled unconventional aircraft motions	p0088 N79-15602	p0066 A79-18474 On the relationship between pilot rating and pilot dynamics. II - An analytical approach
Prediction of pilot reserve attention capacity during air-to-air target tracking		p0066 A79-18475 SPH-4 helmet damage and head injury correlation
		p0127 A79-24633 Naval aviation training - Perspective and prospects
		p0130 A79-25886 Cost analysis of pilot training systems
		p0130 A79-25887 Recent studies of simulation training effectiveness
		p0130 A79-25888 Universal airborne approach to pilot performance assessment
		[SAE PAPER 781009] p0130 A79-25891 A study of progress in flying performance revealed from daily check sheets in a primary flight

training course. III - Comparison of progress between two courses	p0134 A79-27119	p0184 A79-33645
Methodological considerations of visual workloads of helicopter pilots	p0209 A79-38363	p0275 A79-50550
Visual workload of the copilot/navigator during terrain flight	p0209 A79-38364	p0080 N79-14775
Pilot workload in the aircraft of the future	p0226 A79-40646	The use of mathematical modeling in crashworthy helicopter seating systems
Analysis of population mortality kinetics with application to the longevity followup of the Navy's '1,000 aviators'	p0234 A79-43207	p0287 N79-31923
*Gz tolerance correlation with clinical parameters	p0235 A79-43213	Pilot incapacity in flight
A structural model of the adaptive human pilot [AIAA 79-1784]	p0252 A79-45411	p0291 N79-31950
Medical barofunction testing of aviators with otorhinolaryngologic disease	p0298 A79-52285	Geographical disorientation and flight safety
Effect of age on relaxed +G sub z tolerance of aircrewmen	p0030 N79-11719	p0291 N79-31951
Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness	p0030 N79-11721	
The impact of coronary vascular risk factors on professional aircrew license loss in the United Kingdom	p0031 N79-11724	
Cardiovascular diseases as a cause of unfitness for flying service in aircrews of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention	p0031 N79-11725	
Cardiovascular fitness of pilots of transport aircraft	p0031 N79-11726	
A model for the pilot's use of roll-axis motion cues in steady-state tracking tasks [AD-A059504]	p0079 N79-14772	
Speech as a pilot input medium	p0119 N79-17519	
Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue	p0150 N79-19623	
A description of the recent neuropsychological selection of pilots for land forces light aircraft	p0151 N79-19633	
Radiobiological examination of the Rachis and fitness for employment as a helicopter pilot	p0151 N79-19634	
Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator	p0151 N79-19638	
Sensorial aspects of helicopter operations	p0152 N79-19644	
The effective acoustic environment of helicopter crewmen	p0152 N79-19645	
Vertebral pains in helicopter pilots --- symptomatology and radiology	p0153 N79-19656	
Airline pilot scan patterns during simulated ILS approaches [NASA-TP-1250]	p0155 N79-19682	
AIRCRAFT SAFETY		
Evolution of the man-machine interface in surveillance radar systems	p0001 A79-10322	
Heat transfer principles in personal protection applications	p0043 A79-14405	
High 'Q' escape protection --- pilot restraint during high speed ejection	p0044 A79-14428	
Human factors considerations in establishing aircraft collision avoidance system alert thresholds	p0045 A79-14438	
Pilot preflight briefing utilizing an interactive computer generated Voice Response System	p0167 A79-31887	
The fitting of Canadian Forces aircrew helmets - why the difference		
Synthetic training and evaluation - Some current issues		
Visual performance assessment through clear and sunscreen-treated windows [AD-A059750]		
The use of mathematical modeling in crashworthy helicopter seating systems		
Pilot incapacity in flight		
Geographical disorientation and flight safety		
AIRCRAFT STABILITY		
NT HOVERING STABILITY		
Prediction of pilot-aircraft stability boundaries and performance contours		p0118 N79-17507
Manual control of yaw motion with combined visual and vestibular cues		
AIRCREWS		
U FLIGHT CREWS		
AIRFIELDS		
U AIRPORTS		
AIRFOILS		
NT FIXED WINGS		
NT ROTARY WINGS		
AIRLINE OPERATIONS		
Coordinated crew performance in commercial aircraft operations		
Recurrent training/supernumerary system		p0040 A79-13219
Survey on eye comfort in aircraft. I - Flight attendants		p0041 A79-13283
Soviet civil aviation training programs		p0165 A79-30665
		p0270 A79-49221
AIRPORTS		
A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures		
		p0104 A79-23958
Detection of conflict states in air traffic control of airport zones		
		p0166 A79-31181
AIRSPEED		
The behavior of observers in detecting unbriefed targets at different aircraft speeds with side-looking radar [AD-A060908]		
		p0085 N79-15586
ALARMS		
U WARNING SYSTEMS		
ALBUMINS		
RBC/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration		
		p0135 A79-27553
Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station		
		p0244 N79-27820
Binding of biologically active agents to plasma proteins [CL-1977-22]		
		p0261 N79-29787
ALCOHOLS		
NT ETHYL ALCOHOL		
The effects of alcohol on driver performance in a decision making situation		
		p0092 N79-15629
A decision model applied to alcohol effects on driver signal light behavior		
		p0092 N79-15630
Analysis of visible spectra and thermodynamic parameters in hemoprotein systems		
		p0144 N79-18579
ALDEHYDES		
NT FORMALDEHYDE		
ALDOSTERONE		
Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects		
		p0297 A79-52023
ALERTNESS		
Vigilance and electroencephalogram --- human performance in compensatory target tracking		
		p0100 A79-22975

Auditory and visual sustained attention during ozone exposure p0273 A79-49988

Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0109 N79-16526

ALGAE

NT BLUE GREEN ALGAE

NT CHLORELLA

NT SCENEDESMUS

Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419

A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem p0132 A79-26373

Algal growth under multiple nutrient limiting conditions p0013 N79-10692

Impact of large scale aquatic biomass systems [PB-282617/0] p0013 N79-10697

Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740

The growth kinetics of freshwater algae p0174 N79-21740

Citric acid enhancement of copper sulfate toxicity to the blue-green algae "*"aphanizomenon flos-aquae"*" and "*"microcystis aeruginosa"*" [PB-291637/7] p0189 N79-22751

ALGAL BLOOM

NT ALGAE

ALGEBRA

NT HOMOMORPHISMS

NT LINEAR EQUATIONS

NT MATRICES (MATHEMATICS)

ALGORITHMS

The augmentation algorithm and molecular phylogenetic trees p0070 A79-20267

An algorithm to ascertain critical regions of human tracking ability p0163 A79-30218

On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei --- for mutational change in protein evolution p0253 A79-45640

Augmentation algorithm - A reply to Holmquist --- for nucleotide substitutions p0253 A79-45644

Molecular phylogenetic trees - On the validity of the Goodman-Moore augmentation algorithm p0253 A79-45645

Design specification for the whole-body algorithm [NASA-CR-160226] p0212 N79-24641

Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm [NASA-CR-160232] p0218 N79-25729

The development of a whole-body algorithm [NASA-CR-160214] p0218 N79-25730

User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735

ALIPHATIC COMPOUNDS

NT ACETIC ACID

NT ACETYL COMPOUNDS

NT ADENOSINES

NT CYANAMIDES

NT ETHYL ALCOHOL

NT ETHYLENE

NT FATTY ACIDS

NT GLUCOSE

NT GLUTAMINE

NT GLYCOGENS

NT HEXOSSES

NT HYDRAZINES

NT INOSITOLS

NT ISOPROPYL COMPOUNDS

NT KETONES

NT LACTATES

NT METHANE

NT NUCLEOSIDES

NT POLYSACCHARIDES

ALKALI HALIDES

NT SODIUM CHLORIDES

ALKALI METALS

NT POTASSIUM

NT POTASSIUM 40

NT SODIUM

NT SODIUM ISOTOPES

NT SODIUM 22

ALKALIES

NT LITHIUM HYDROXIDES

ALKALOIDS

NT HYOSCINE

NT NICOTINE

ALKANES

NT METHANE

ALKENES

NT ETHYLENE

ALL-WEATHER LANDING SYSTEMS

Manual landings in Category 3 conditions p0297 A79-52055

ALLERGIC DISEASES

Allergy to lanolin [BLL-RTS-11185] p0142 N79-18570

ALLOYS

NT PLATINUM ALLOYS

ALPHANUMERIC CHARACTERS

The effect of active area on the legibility of dot matrix displays [AD-A058014] p0052 N79-12708

A human engineering specification for legibility of alphanumeric symbology on video monitor displays [AD-A064960] p0197 N79-23667

ALTERATION

U REVISIONS

ALTITUDE

NT FLIGHT ALTITUDE

NT HIGH ALTITUDE

NT LOW ALTITUDE

ALTITUDE ACCLIMATIZATION

Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia p0097 A79-20621

Cerebral gas exchange in rats adapted to hypoxia during inspiration of oxygen-poor mixtures p0097 A79-20623

Responses of high altitude natives to a standard cold test at sea level p0164 A79-30658

Immunophysiological aspects of man's adaptation to highland p0188 A79-35123

Investigation of the content of hemoglobin and its fractions in permanent inhabitants of the Tien Shan and Pamir p0188 A79-35124

Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylycyclase and phosphodiesterase systems in the myocardium p0255 A79-46500

Oxygen affinity of blood in altitude Sherpas p0268 A79-47854

Composition of cerebral fluids in goats adapted to high altitude p0277 A79-50902

Evidence for increased intrathoracic fluid volume in man at high altitude p0305 A79-54266

Composition of cerebral fluids in goats adapted to high altitude [AD-A070142] p0310 N79-33788

ALTITUDE SICKNESS

Case report - Intracardial gas bubbles in relation to altitude decompression chokes p0011 A79-12871

Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639

ALTITUDE SIMULATION

Hemoglobinemia in rats exposed to high altitude is not due to an overload of catabolic mechanisms p0101 A79-23467

Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m p0102 A79-23474

Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201

Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance

ALTITUDE TESTS

SUBJECT INDEX

ALTITUDE TESTS	p0235 A79-43210	NT PROTOPROTEINS
NT HIGH ALTITUDE TESTS		NT TRYPTOPHAN
Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving	p0010 A79-12866	Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for sodium ions in <i>Halobacterium halobium</i> - Translocation stoichiometries and apparent cooperativity
ALTITUDE TOLERANCE		
Hemoglobinemia in rats exposed to high altitude is not due to an overload of catabolic mechanisms	p0101 A79-23467	p0002 A79-10425
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances	p0127 A79-24628	In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-C-14/ in hypophysectomized rats
Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance	p0127 A79-24635	p0005 A79-12400
Individual differences in hypoxic responses at high altitudes	p0159 A79-28738	Speculations of the evolution of the genetic code. II
Plasma electrolytes in relation to altitude tolerance in rats	p0163 A79-30652	p0099 A79-22080
Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance	p0235 A79-43210	Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions
Effects of propranolol on Time of Useful Function (TUF) in rats --- tolerance to rapid decompression [AD-A068535/4]	p0283 N79-31896	p0105 A79-24520
ALUMINUM		Beta-galactosidase and selective neutrality --- amino acid composition of proteins
Aluminized firefighters' crash-rescue protective hood: Facepiece-visor redesign study [AD-A066492]	p0223 N79-25764	p0132 A79-26169
ALUMINUM COMPOUNDS		The origin of life on earth - Recent studies
NT KAOLINITE		p0134 A79-27335
NT MONTMORILLONITE		Amino acids in southern Kamchatka hot springs
ALUMINUM SILICATES		p0182 A79-33122
NT KAOLINITE		Synthesis of amino acids under primitive earth conditions in the presence of clay
NT MONTMORILLONITE		p0203 A79-37930
AMBIENT TEMPERATURE		Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums
Effect of cockpit temperature gradients on the validity of single-point measurements	p0234 A79-43203	p0203 A79-37935
Responses of conscious rabbits to CO2 at ambient temperatures of 5, 20, and 35 C	p0277 A79-50904	Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere
Protective approaches in the moderation of the physiological effects of extreme ambient conditions in helicopter operations	p0149 N79-19618	p0203 A79-37937
AMBULANCES		Incorporation of sulphur in chemical evolution
Evaluation of the helicopter in aeromedical transfers	p0128 A79-24638	p0203 A79-37938
AMERICIUM		Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium
NT AMERICIUM 241		p0204 A79-37964
AMERICIUM ISOTOPES		The point mutation process in proteins
NT AMERICIUM 241		p0205 A79-37972
AMERICIUM 241		Some characteristic features of the origin and evolution of the amino acid composition of proteins - A theoretical consideration
Pacific Northwest Laboratory report for 1977 to the DOE assistant secretary for environment. Part 2: Ecological sciences [PNL-2500-PT-2]	p0053 N79-13677	p0206 A79-37973
AMIDES		Nucleotide-binding site data and the origin of the genetic code
NT CYANAMIDES		p0206 A79-37974
NT UREAS		Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782
AMINES		p0230 A79-41714
NT AMPHETAMINES		Inadequacy of prebiotic synthesis as origin of proteinous amino acids
NT CATECHOLAMINE		p0253 A79-45643
NT HYOSCINE		Polymers produced by heating an amino acid mixture in sea water enriched with transition elements
NT PROMETHAZINE		p0254 A79-46461
NT SEROTONIN		Gating effects in <i>Halobacterium halobium</i> membrane transport
Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain	p0162 A79-29925	p0268 A79-47849
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums	p0203 A79-37935	p0270 A79-49194
Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere	p0203 A79-37937	Role of n-aminobenzoic acid in repairing UV and gamma radiation damage
AMINO ACIDS		p0301 A79-53211
NT GLUTAMINE		Effects of electromagnetic field induction on development of the green algae, <i>Scenedesmus quadricauda</i> (Turpin) Breb. and composition of free amino acids in its biomass and medium
NT LEUCINE		p0075 N79-14740
NT PEPTIDES		AMMONIA
NT POLYPEPTIDES		Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions

AMPHIBIA	NT LEG (ANATOMY)
NT FROGS	NT LIMBS (ANATOMY)
AMPLITUDE MODULATION	NT LIVER
Classification of amplitude-modulated noise patterns with extended practice [AD-A066703]	NT LUNGS
	NT LYMPHOCYTES
	NT MAMMARY GLANDS
	NT MIDDLE EAR
	NT MUSCULOSKELETAL SYSTEM
	NT MYOCARDIUM
	NT NECK (ANATOMY)
	NT OCULOMOTOR NERVES
	NT ORGANS
	NT OTOLITH ORGANS
	NT PARATHYROID GLAND
	NT PHOTORECEPTORS
	NT PINEAL GLAND
	NT PITUITARY GLAND
	NT PROPRIOCEPTORS
	NT PROSTATE GLAND
	NT PUPILS
	NT RESPIRATORY SYSTEM
	NT RETINA
	NT SEMICIRCULAR CANALS
	NT STOMACH
	NT SYSTOLE
	NT TESTES
	NT THERMORECEPTORS
	NT THYMUS GLAND
	NT THYROID GLAND
	NT TIBIA
	NT TRACHEA
	NT VASCULAR SYSTEM
	NT VEINS
	NT VERTEBRAE
	NT VERTEBRAL COLUMN
	NT VESTIBULES
	NT WRIST
	Anatomical frames of reference and biomechanics [PAA-AM-78-37]
	p0065 A79-18230
	Anatomical coordinate systems for human body segments
	p0065 A79-18231
	Functional anatomy of vertebral column with reference to load bearing areas
	p0272 A79-49732
	Analysis and validation of human biodynamic models [AD-A059013]
	p0058 N79-13714
	The lymph nodes and lymph vessels of the white rat [BLL-RTS-11309]
	p0141 N79-18554
ANALOG SIMULATION	ANEMOMETERS
Various modeling approaches in biomechanics --- analog simulation of impact events	NT HOT-FILM ANEMOMETERS
	ANEMOMETRY
	U VELOCITY MEASUREMENT
	ANGIOGRAPHY
	Predictive accuracy of Q-X/Q-T ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing --- heart pathology
	p0225 A79-40464
	Coronary calcification in the diagnosis of coronary artery disease
	p0226 A79-40465
	Computer quantitation of angiographic images
	p0293 A79-51028
	Computer quantitation of coronary angiograms
	p0293 A79-51030
	The development of a digital video subtraction system for intravenous angiography
	p0294 A79-51033
	Contour detector and data acquisition system for the left ventricular outline [NASA-CASE-ARC-10985-1]
	p0017 N79-10724
ANATOMY	ANGULAR ACCELERATION
NT ADRENAL GLAND	Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements [ASME PAPER 78-WA/BIO-5]
NT AORTA	p0069 A79-19759
NT ARM (ANATOMY)	Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability
NT ARTERIES	p0188 A79-35122
NT BLADDER	Characteristics of vestibular nystagmus in rats
NT BLOOD VESSELS	p0016 N79-10714
NT BONES	An examination of statistical impact acceleration injury prediction models based on -Gx accelerator data from subhuman primates
NT BRAIN	[AD-A057276]
NT BRONCHI	p0026 N79-11690
NT CAPILLARIES (ANATOMY)	Vestibular models and thresholds of motion perception. Result of tests in a flight simulator [VTH-LR-265]
NT CARDIAC VENTRICLES	p0146 N79-18595
NT CARDIOVASCULAR SYSTEM	
NT CARTILAGE	
NT CEREBRAL CORTEX	
NT CEREBRUM	
NT CHEMORECEPTORS	
NT CHEST	
NT CIRCULATORY SYSTEM	
NT COCHLEA	
NT COLLAGENS	
NT CONNECTIVE TISSUE	
NT CORnea	
NT DIAPHRAGM (ANATOMY)	
NT EAR	
NT ERYTHROCYTES	
NT EYE (ANATOMY)	
NT FEMUR	
NT FINGERS	
NT FOREARM	
NT FOVEA	
NT GLANDS (ANATOMY)	
NT GRAVIRECEPTORS	
NT HAND (ANATOMY)	
NT HEAD (ANATOMY)	
NT HEART	
NT HEMATOPOESIS	
NT HEMATOPOIETIC SYSTEM	
NT HIPPOCAMPUS	
NT HUMAN BODY	
NT JOINTS (ANATOMY)	
NT KIDNEYS	
NT KNEE (ANATOMY)	
NT LABYRINTH	

- Balance training of the equilibrium organ and its effect on flight strategy p0242 N79-27074
- Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- ANGULAR MOTION**
- U ANGULAR VELOCITY**
- ANGULAR VELOCITY**
- Dynamics of an image viewed through a rotating mirror p0221 A79-36365
- ANIMALS**
- NT ARTEMIA
- NT ARTHROPODS
- NT CHICKENS
- NT CHIMPANZEES
- NT DOGS
- NT DROSOPHILA
- NT FISHES
- NT FROGS
- NT GOATS
- NT HUMAN BEINGS
- NT INSECTS
- NT INVERTEBRATES
- NT MAMMALS
- NT MICE
- NT MONKEYS
- NT PARAMECIA
- NT PRIMATES
- NT RABBITS
- NT RATS
- NT SPORES
- NT WHALES
- NT WORMS
- Animal life support transporters for Shuttle/Spacelab [ASME PAPER 78-ENAS-10] p0006 A79-12559
- Ecological physiology of animals. I - General ecological physiology and physiology of adaptations --- Russian book p0275 A79-50474
- Spermatogenesis in dogs during many years of chronic exposure to gamma radiation and in the aftereffect period p0073 N79-14727
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- State of blood clotting during prolonged hypokinesia p0073 N79-14729
- The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- Blood lipid changes in hypoxic rats p0074 N79-14731
- Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils p0074 N79-14732
- Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733
- Role of vestibular system in behavior of animals submitted to prolonged slow rotation p0074 N79-14734
- Some recent results on the deposition of electromagnetic energy in animals and models of man p0083 N79-15563
- Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826] p0107 N79-16514
- ANIMATION**
- U MOTION**
- ANOMALIES**
- Digital image anomalies - Static and dynamic --- rastering and aliasing effects and elimination p0137 A79-28158
- ANOXIA**
- Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- Molecular determinants for the prediction and survival of ischemic anoxic stress pathology p0027 N79-11700
- ANTENNAS**
- NT LOOP ANTENNAS
- ANTHROPOMETRY**
- Seating, console and workplace design - Seated operator reach profiles p0036 A79-13188
- Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189
- Estimating percentiles of nonnormal anthropometric populations - Final report p0065 A79-18226
- Anatomical frames of reference and biomechanics p0065 A79-18230
- A theoretical model to estimate some ergonomic parameters from age, height and weight p0132 A79-26150
- Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024] p0032 N79-11734
- Anthropometric changes in weightlessness p0032 N79-11735
- Variability in human body size p0032 N79-11736
- Anthropometry** p0032 N79-11737
- Arm-leg reach and workspace layout p0033 N79-11739
- Range of joint motion p0033 N79-11740
- Human muscular strength p0033 N79-11741
- Anthropometry in sizing and design p0033 N79-11742
- Statistical considerations in man-machine designs p0033 N79-11743
- Reach capability of men and women: A three-dimensional analysis [AD-A060312] p0081 N79-14779
- Editing procedure for anthropometric survey data [AD-A060393] p0093 N79-15639
- The use of biostereometry in helicopter cockpit design --- using a simulator and analytic geometry p0150 N79-19629
- Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PB-289951/6] p0179 N79-21776
- Analysis of body form using biostereometrics [NASA-CR-160173] p0195 N79-23654
- Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment [AD-A065901] p0197 N79-23668
- Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903
- United States Army anthropometry: 1946-1977 [AD-A068095] p0289 N79-31938
- Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600] p0290 N79-31939
- ANTIADRENERGICS**
- Effects of propranolol on Time of Useful Function (TUF) in rats --- tolerance to rapid decompression [AD-A068535/4] p0283 N79-31896
- ANTIBIOTICS**
- Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
- ANTIBODIES**
- NT GAMMA GLOBULIN
- ANTIGENS**
- Design of polymeric immunomicspheres for cell labelling and cell separation p0275 A79-50234
- Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
- Isolation of virus-augmented tumor antigens p0142 N79-18564
- ANTIHISTAMINICS**
- NT PROMETHAZINE
- Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances p0127 A79-24628
- Effects of altitude and two decongestant-antihistamine preparations on

physiological functions and performance	p0127 A79-24635	breathing 80% argon and 20% oxygen	p0164 A79-30655
Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2]	p0077 N79-14755	ARGUMENTS (MATHEMATICS)	
ANTIIINPECTIVES AND ANTIBACTERIALS		U INDEPENDENT VARIABLES	
Microbial Check Valve for Shuttle [ASME PAPER 78-ENAS-27]	p0008 A79-12576	ARIP (IMPACT PREDICTION)	
ANTIRADIATION DRUGS		U COMPUTERIZED SIMULATION	
Role of n-aminobenzoic acid in repairing UV and gamma radiation damage	p0301 A79-53211	ARKANSAS	
AORTA		Distribution of phytoplankton in Arkansas lakes [PB-292782/4]	p0240 N79-26768
Better definition of eye to aortic valve distance in high acceleration cockpit /RAC/ seating geometries	p0183 A79-33632	ARM (ANATOMY)	
Aortic blood flow velocity during exercise in man	p0216 N79-25710	NT FOREARM	
APERTURES		A prediction model of arm push strength in the transverse plane	p0037 A79-13195
On the measurement of hazardous e.m. fields radiated through an aperture	p0233 A79-42486	Arm-leg reach and workspace layout	p0033 N79-11739
APNEA		ARMED FORCES	
U RESPIRATION		NT ARMED FORCES (UNITED STATES)	
APOLLO SOYUZ TEST PROJECT		NT NAVY	
Biological study of tobacco seeds flown in the joint Apollo-Soyuz test-project	p0006 A79-12519	ARPA authoring system [AD-A064723]	p0190 N79-22762
Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/	p0229 A79-41708	ARMED FORCES (UNITED STATES)	
APPENDAGES		Acute toxicity of a number of chemicals of interest to the Air Force [AD-A067313]	p0220 N79-25742
NT ARM (ANATOMY)		United States Army anthropometry: 1946-1977 [AD-A068095]	p0289 N79-31938
NT FOREARM		Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600]	p0290 N79-31939
NT HAND (ANATOMY)		Three decades of USAF efforts to reduce human error accidents, 1947-1977	p0290 N79-31943
NT KNEE (ANATOMY)		ARRHYTHMIA	
NT LEG (ANATOMY)		+Gz tolerance correlation with clinical parameters p0235 A79-43213	
APPLICATION		Cardiac arrhythmia following postimmersion +G sub z accelerations p0015 N79-10710	
U UTILIZATION		The significance of rhythm disturbances in asymptomatic persons p0027 N79-11698	
APPROACH		ARTEMIA	
NT INSTRUMENT APPROACH		Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632	
A safety margin and flight reference system and display for powered-lift aircraft	p0090 N79-15614	ARTERIES	
The limited range of the human eye for optical aircraft acquisition	p0291 N79-31948	NT AORTA	
APPROACH CONTROL		Effect of exercise on collateral development in dogs with normal coronary arteries p0067 A79-18960	
Manual landings in Category 3 conditions	p0297 A79-52055	Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0101 A79-23075	
APPROACH INDICATORS		Circulatory response to arterial hyperoxia p0221 A79-36048	
Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators	p0297 A79-52276	Norepinephrine action on smooth muscle cells of coronary arteries p0208 A79-38149	
APTITUDE		Analyses for noninvasive monitoring of arterial blood pressure by /I/ phono cuff-sphygmomanometry, for discrete measurements and /II/ arterial ultrasonic imaging, for continuous measurements p0294 A79-51037	
Relating performance in basic electricity and electronics and A schools [AD-A060914]	p0085 N79-15584	Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals p0169 N79-20713	
Some variations on derivations by Primoff and their extensions [PB-287298/4]	p0112 N79-16548	Mechanics of arterial blood flow p0247 N79-27846	
AQUEOUS SOLUTIONS		Mass transport in arteries p0247 N79-27848	
Prebiotic condensation of oligonucleotide	p0204 A79-37945	ARTERIOSCLEROSIS	
AQUICULTURE		Ruptured arteriovenous anomaly in a former woman astronaut candidate p0128 A79-24640	
Impact of large scale aquatic biomass systems [PB-282617/0]	p0013 N79-10697	Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression p0186 A79-34284	
Nitrogen fixation with photosynthetic marine microorganisms [PB-286000/5]	p0083 N79-15570	The development of a digital video subtraction system for intravenous angiography p0294 A79-51033	
ARCTIC REGIONS		Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0] p0085 N79-15581	
Man and materiel in the cold regions, part 1 [AD-A063752]	p0178 N79-21771		
AREA NAVIGATION			
Response surface methodology as a manipulator of complex task difficulty --- for computer generated aircraft area navigation control-display systems evaluation	p0039 A79-13211		
ARGON			
Molecular sieve oxygen generating system - The argon question /A brief review/ --- effects of 5 percent Ar in breathing gas	p0274 A79-49994		
ARGON-OXYGEN ATMOSPHERES			
Tissue gas and blood analyses of human subjects			

ARTHROPODS

SUBJECT INDEX

Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1]	p0085 N79-15582	[DGLR PAPER 78-183]	p0070 A79-20024
Ergometric tests in expert medical certification of flight personnel	p0109 N79-16527	Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88]	p0302 A79-53291
Effects of dietary fats on atherosclerosis and thrombosis	p0240 N79-26776	ASSESSMENTS	NT TECHNOLOGY ASSESSMENT
Aspects of dietary prevention of arteriosclerosis	p0262 N79-29792	ASSIMILATION	Inverse assimilation - A general principle of evolution of planetary surfaces
ARTHROPODS		ASTRP	p0207 A79-37989
NT ARTEMIA		U APOLLO SOYUZ TEST PROJECT	
NT DROSOPHILA		ASTROBIOLOGY	
NT INSECTS		U EXOBIOLOGY	
Selected examples of dispersal of arthropods associated with agricultural crop and animal production	p0148 N79-19595	ASTRONAUT LOCOMOTION	Spacesuit mobility knee joints [NASA-CASE-ARC-11058-2]
ARTIFICIAL HEART VALVES		ASTRONAUT MANEUVERING EQUIPMENT	p0214 N79-24651
Translations on USSR science and technology: Biomedical and behavioral sciences, no. 51 [JPRS-72588]	p0076 N79-14745	Manned maneuvering unit: User's guide [NASA-CR-151864]	p0113 N79-16553
Functional outcomes of prosthetic cardiac valve replacement	p0076 N79-14746	ASTRONAUT PERFORMANCE	On the man's adaptation to the operator's work under stressful conditions of space flight [IAF PAPER 78-A-56]
Development of an electrical energy converter for circulatory device [PB-286738/0]	p0111 N79-16545	Experimental and psychological investigations in aviation and astronautics --- Russian book	p0003 A79-11345
Application of numerical methods to physiological flows --- Navier-Stokes equation, prosthetic heart valves and vasoconstriction	p0146 N79-18945	Space Sled - A multipurpose apparatus for vestibular research aboard Spacelab [DGLR PAPER 78-132]	p0042 A79-14083
Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4]	p0241 N79-26780	Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission [DGLR PAPER 78-134]	p0042 A79-14084
ARTIFICIAL INTELLIGENCE		Engineering-psychological study of information imaging systems --- manual control of spaceship docking	p0099 A79-21404
NT COGNITIVE PSYCHOLOGY		Caloric and exercise requirements of space flight - Biostereometric results from Skylab	p0128 A79-24637
Overview of the use of robots in space missions [DGLR PAPER 78-154]	p0042 A79-14099	Manual alignment of structural components in space [AIAA PAPER 79-0535]	p0129 A79-25855
Robots and artificial intelligence --- Russian book	p0061 A79-17569	The physiologist's view of sensory illusions	p0255 A79-46597
Multi-PIERRE - A learning robot system	p0066 A79-18425	Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88]	p0302 A79-53291
The interpretation of visual motion --- Book	p0186 A79-34424	Thoughts about man-machine interrelations in space flights applied to Spacelab missions [IAF PAPER 79-95]	p0302 A79-53295
Goal-directed mechanics of controlled manipulators --- Russian book	p0275 A79-50447	Communication problems of international crews [IAF PAPER 79-A-23]	p0303 A79-53425
Visual motion perception by intelligent systems	p0300 A79-52691	Psychological selection of Spacelab payload specialists: The evaluation of German applicants [DLR-FB-78-29]	p0281 N79-30936
ARTIFICIAL SATELLITES		ASTRONAUT TRAINING	From the laboratory to the Spacelab - Training program for Spacelab payload experts [DGLR PAPER 78-162]
NT BIOSATELLITES		Ruptured arteriovenous anomaly in a former woman astronaut candidate	p0069 A79-20023
NT COSMOS SATELLITES		Consciousness alteration in space [AIAA PAPER 79-1430]	p0128 A79-24640
NT COSMOS 782 SATELLITE		Spacelab's payload specialists, their selection and duties on-board	p0187 A79-34853
NT COSMOS 936 SATELLITE		Selection, training, and health care of working specialists for Shuttle/Spacelab and future space station missions [IAF PAPER 79-99]	p0226 A79-40720
NT INTERCOSMOS SATELLITES		Psychological training - One of the most important factors of enhancing the safety of space flights [IAF PAPER 79-A-24]	p0303 A79-53297
NT ORBITAL SPACE STATIONS		ASTRONAUTS	Some advances in astronaut radiation dosimetry [IAF PAPER 78-67]
NT ORBITAL WORKSHOPS		Psychological selection of payload astronauts	p0003 A79-11228
ARTILLERY		Selection of astronaut candidates - Contribution of the exercise ECG and spirography	p0047 A79-15488
Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery	p0046 A79-14969	Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test	p0047 A79-15489
ARTS		Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight	p0047 A79-15490
NT ABILITIES			p0047 A79-15491
ASCORBIC ACID			
Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs	p0312 N79-33803		
ASPERGILLUS			
The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus	p0005 A79-12512		
ASSAULTING			
U ATTACKING (ASSAULTING)			
ASSEMBLING			
NT ORBITAL ASSEMBLY			
General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4]	p0113 N79-16556		
Simulated EVA operation of a remote connector assembly test report [NASA-CR-161167]	p0156 N79-19687		
ASSESS PROGRAM			
Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II			

- Special tests for astronaut selection - Muscular exercise test p0047 A79-15492
- Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80] p0301 A79-53288
- Considerations associated with the introduction of female crewmembers in spacecraft and space stations [IAF PAPER 79-A-22] p0303 A79-53424
- Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method p0015 N79-10707
- Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715
- Man-machine analysis of translation and work tasks of Skylab films [NASA-CR-151879] p0146 N79-18592
- ASTROLOGY**
- NT SPACEBORNE ASTRONOMY**
- ATAxia**
- Effects of congeners and noncongeners on alcoholics on a clinical ataxia test battery [AD-A069375] p0314 N79-33819
- ATHEROSCLEROSIS**
- U ARTERIOSCLEROSIS**
- ATHLETES**
- Thermoregulation in swimmers and runners p0227 A79-41186
- Dynamics of the catalase activity of the blood of athletes under the influence of local decompression p0271 A79-49699
- ATMOSPHERIC CHEMISTRY**
- Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres p0099 A79-22079
- ATMOSPHERIC COMPOSITION**
- Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
- Enhancing biological production of ammonia from atmospheric nitrogen and soil nitrate [PB-286515/2] p0083 N79-15571
- ATMOSPHERIC CONDITIONS**
- U METEOROLOGY**
- ATMOSPHERIC EFFECTS**
- The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
- ATMOSPHERIC IMPURITIES**
- U AIR POLLUTION**
- ATMOSPHERIC MODELS**
- NT DYNAMIC MODELS**
- Habitable zones about main sequence stars p0136 A79-27930
- ATMOSPHERIC NOISE**
- U ATMOSPHERICS**
- ATMOSPHERIC PRESSURE**
- Effect of decompression per se on nitrogen elimination p0067 A79-18964
- ATMOSPHERIC RADIATION**
- NT STRATOSPHERE RADIATION**
- Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631
- ATMOSPHERIC TEMPERATURE**
- Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873] p0107 N79-16512
- ATMOSPHERICS**
- Biological effects of electromagnetic fields p0184 A79-33712
- ATOMIC ENERGY**
- U NUCLEAR ENERGY**
- ATROPHY**
- Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats p0268 A79-47856
- The influence of exercise on bone atrophy [NASA-CR-160196] p0216 N79-25714
- ATTACK AIRCRAFT**
- NT A-7 AIRCRAFT**
- NT F-4 AIRCRAFT**
- NT F-15 AIRCRAFT**
- NT F-16 AIRCRAFT**
- NT F-18 AIRCRAFT
- NT F-104 AIRCRAFT
- NT F-111 AIRCRAFT
- NT FIGHTER AIRCRAFT
- NT JAGUAR AIRCRAFT
- Ground attack
- ATTACKING (ASSAULTING)
- The design of air combat aircraft
- Ground attack
- ATTENTION
- Auditory and visual sustained attention during ozone exposure p0273 A79-49988
- Time-sharing is not a unitary ability [AD-A056632] p0019 N79-10739
- Linear modelling of attentional resource allocation p0091 N79-15626
- A model for dynamic allocation of human attention among multiple tasks p0092 N79-15627
- Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
- ATTITUDE (INCLINATION)**
- NT PITCH (INCLINATION)**
- NT ROLL**
- NT YAW**
- The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line p0228 A79-41422
- Man and automation --- for human-automatic pilot interfaces p0275 A79-50372
- The effects of closed loop tracking on a subjective tilt threshold in the roll axis p0090 N79-15620
- Use of the tilt cue in a simulated heading tracking task p0091 N79-15621
- Roll tracking effects of G-vector tilt and various types of motion washout p0091 N79-15622
- ATTITUDE CONTROL**
- NT LATERAL CONTROL**
- A model for the pilot's use of roll-axis motion cues in steady-state tracking tasks [AD-A059504] p0079 N79-14772
- AUDIO EQUIPMENT**
- NT EARPHONES**
- Magnitude estimation as a hearing aid selection procedure p0246 N79-27838
- AUDIO FREQUENCIES**
- A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0045 A79-14602
- Effects of noise frequency on performance and annoyance [NASA-TM-80107] p0241 N79-26781
- AUDIO VISUAL EQUIPMENT**
- U TRAINING DEVICES**
- AUDIOMETRY**
- Automatic audiometry in the practice of flight-personnel examination p0295 A79-51084
- AUDITORY DEFECTS**
- Aeromedical aspects of otolaryngology p0136 A79-27562
- Two approaches to category representation in aural classification [AD-A066705] N79-25754
- AUDITORY PERCEPTION**
- The relationship between classical centers of the auditory tract and certain 'nonspecific' brain structures in the organization of the auditory function in animals p0043 A79-14370
- Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems p0043 A79-14371
- Significance of motor activity for spatial hearing p0043 A79-14372

- Elements of the theory of biological analyzers ---
Russian book p0132 A79-26450
- Auditory analysis of complex sound:
Electrophysiological investigations --- Russian
book p0167 A79-31899
- Effect of paradoxical sleep deprivation on the
acquisition of sound discrimination p0167 A79-31988
- Automatic recognition of spoken words using a
functional model of the auditory system p0235 A79-43464
- Studies on the microwave-induced auditory effect
[PB-290598/2] p0213 N79-24648
- Overall loudness of steady sounds according to
theory and experiment [NASA-RP-1001] N79-25753
- Two approaches to category representation in aural
classification [AD-A066705] N79-25754
- Predicting individual listener confusions in the
classification of complex, steady-state sounds
[AD-A066704] p0222 N79-25755
- Classification of amplitude-modulated noise
patterns with extended practice [AD-A066703] p0222 N79-25756
- The loudness of tinnitus p0246 N79-27837
- Effects of acute noise traumata on whole-nerve and
single-unit activity [IZF-1978-23] p0308 N79-32829
- AUDITORY SIGNALS**
- The relationship between classical centers of the
auditory tract and certain 'nonspecific' brain
structures in the organization of the auditory
function in animals p0043 A79-14370
- A continuous wave, frequency modulated, ultrasonic
device with auditory output for observing the
heart p0045 A79-14602
- Auditory analysis of complex sound:
Electrophysiological investigations --- Russian
book p0167 A79-31899
- Manual control of yaw motion with combined visual
and vestibular cues p0119 N79-17513
- AUDITORY STIMULI**
- Bilateral and interhemispheric asymmetry of
acoustic evoked potentials during monoaural
acoustic stimulation p0159 A79-28735
- A further investigation of visual dominance p0186 A79-33949
- Auditory evoked potentials during short-term
auditory stimulation p0277 A79-50659
- Effects of filtering electroencephalic signals on
auditory evoked brain stem responses p0176 N79-21758
- Overall loudness of steady sounds according to
theory and experiment [NASA-RP-1001] N79-25753
- AUDITORY TASKS**
- Carbon monoxide and human time discrimination -
Failure to replicate Beard-Wertheim experiments
p0102 A79-23472
- Comparative evaluation of the effectiveness of
visual and aural tracking of a sinusoidal signal
p0159 A79-28736
- Auditory and visual sustained attention during
ozone exposure p0273 A79-49988
- Auditory evoked potentials during short-term
auditory stimulation p0277 A79-50659
- AUGMENTATION**
- NT STABILITY AUGMENTATION
- Augmentation algorithm - A reply to Holmquist ---
for nucleotide substitutions p0253 A79-45644
- Molecular phylogenetic trees - On the validity of
the Goodman-Moore augmentation algorithm p0253 A79-45645
- Pilot-optimal augmentation synthesis p0088 N79-15603
- AUTOCATALYSIS**
- The crisis in the problem of the origin of life
p0207 A79-37982
- Evolution in open systems - Acquisition and
conservation of information in bioids
p0207 A79-37987
- AUTOCLAVES**
- A system for sterilizing objects --- such as water
systems on the space shuttle using ethylene oxide
[NASA-CASE-KSC-11085-1] p0318 N79-33848
- AUTOMATA THEORY**
- Control systems for robots and manipulators ---
Russian book p0134 A79-27303
- Some properties of conservative systems ---
walking robot model p0221 A79-35942
- Goal-directed mechanics of controlled manipulators
--- Russian book p0275 A79-50447
- AUTOMATIC CONTROL**
- NT ADAPTIVE CONTROL
- NT AUTOMATIC FLIGHT CONTROL
- NT AUTOMATIC GAIN CONTROL
- NT DYNAMIC CONTROL
- NT FEEDBACK CONTROL
- NT LEARNING MACHINES
- NT NUMERICAL CONTROL
- NT OPTIMAL CONTROL
- Automatic control of physiological functions of
the human organism in pathology --- Russian book
p0132 A79-26350
- Control systems for robots and manipulators ---
Russian book p0134 A79-27303
- Visually estimating workpiece pose in a robot hand
using the feature points method p0269 A79-48018
- An analysis of helicopter pilot control behaviour
and workload during instrument flying tasks
[NLR-MP-78003-U] p0124 N79-17553
- Microbial load monitor [NASA-CR-160274] p0243 N79-27815
- The systemic principles of building a man-machine
control staff --- functional analysis p0249 N79-27861
- AUTOMATIC DATA PROCESSING**
- U DATA PROCESSING
- AUTOMATIC FLIGHT CONTROL**
- The man-computer division of tasks in the case of
the control of complex technical systems ---
applied to aircraft p0061 A79-17683
- AUTOMATIC GAIN CONTROL**
- Contrast enhancement using local area brightness
and gain control --- of airborne CRT display
p0037 A79-13199
- AUTOMATIC PATTERN RECOGNITION**
- U PATTERN RECOGNITION
- AUTOMATIC PILOTS**
- Communications management by the remote system -
An adaptive approach --- modeling of RPV
autopilot/operator systems p0041 A79-13226
- Man and automation --- for human-automatic pilot
interfaces p0275 A79-50372
- AUTOMATIC ROCKET IMPACT PREDICTORS**
- U COMPUTERIZED SIMULATION
- AUTOMATIC TEST EQUIPMENT**
- Development of automated performance measures for
introductory air combat maneuvers p0040 A79-13223
- Automatic audiometry in the practice of
flight-personnel examination p0295 A79-51084
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] p0050 N79-12694
- AUTOMATION**
- New principles of automation of biomedical research
p0078 N79-14763
- Proceedings of the 1977 Computerized Adaptive
Testing Conference [AD-A060049] p0079 N79-14771
- AUTOMOBILE ACCIDENTS**
- Whole body response research program
[PB-286151/6] p0093 N79-15640
- Whole body response research program. Appendix A:
Methodology

- [PB-286152/4] p0094 N79-15641
Whole body response research program. Appendix B:
 Raw data p0094 N79-15642
 [PB-286153/2] p0094 N79-15642
Whole body response research program. Appendix C:
 Processed data p0094 N79-15643
 [PB-286154/0] p0094 N79-15643
 Calibration of three year old child dummies p0157 N79-19692
- AUTOMOBILES**
- Evaluation of occupant protection devices and restraint systems p0053 N79-12713
 Development of recommendations to improve controls operability p0053 N79-12714
 Vehicle Steering control: A model of learning p0089 N79-15606
 The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance p0089 N79-15608
 The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
 A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
 The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator p0115 N79-17484
 [RS-GMR-2394] p0115 N79-17484
 A control theoretic model of driver steering behavior p0116 N79-17491
 Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions p0117 N79-17493
 Steering behaviour and manual control actions.
 Part 1: An evaluation of the literature and a research plan p0146 N79-18594
 [IZF-1978-3] p0146 N79-18594
 Test and evaluation of head restraints, seat backs, and anchorages in vehicles subjected to rear impact collision p0178 N79-21773
 [PB-289779/1] p0178 N79-21773
 Evaluation of research on surrogates for humans in motor vehicle crashes p0178 N79-21774
 [PB-291012/3] p0178 N79-21774
 Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1 p0178 N79-21775
 [PB-290328/4] p0178 N79-21775
 Car driving as a cybernetic task p0309 N79-32838
- AUTONOMIC NERVOUS SYSTEM**
- NT SYMPATHETIC NERVOUS SYSTEM
- AUTOPILOTS**
- U AUTOMATIC PILOTS
- AUTOPSIES**
- Assessment of burns in accident fatalities p0272 A79-49729
 Whole body response research program. Appendix B:
 Raw data p0094 N79-15642
 [PB-286153/2] p0094 N79-15642
- AUTORADIOGRAPHY**
- Autoradiographic enhancement of mammograms p0227 A79-40773
- AUTOROTATION**
- Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- AVIATION**
- U AERONAUTICS
- AVIATORS**
- U AIRCRAFT PILOTS
- AVIONICS**
- Refinement of a computer simulation model for evaluating DAIS display concepts --- Digital Avionics Information System p0038 A79-13209
 Light weight solid state helmet symbol display and position system p0046 A79-15177
 Helicopter night operations - Feasibility and impact on the overall system --- helmet mounted FLIR detectors and image intensifier goggles p0048 A79-16235
- Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics p0064 A79-18217
 Manual landings in Category 3 conditions p0297 A79-52055
 Optimisation of pilot capability and avionic system design [AGARD-AR-118] p0113 N79-16560
 Optimisation of pilot capability and avionic system design, introduction p0113 N79-16561
 Pilot workload qualification for avionics design p0114 N79-16564
 Human factors evaluations of today's helicopters as an aid to future systems design p0150 N79-19627
- AVOIDANCE**
- NT COLLISION AVOIDANCE
- AXES (COORDINATES)**
- U COORDINATES
- AXIAL COMPRESSION LOADS**
- Analytical modelling of load-deflection behavior of intervertebral discs subjected to axial compression [AD-A071019] p0316 N79-33830
- AXIAL LOADS**
- NT AXIAL COMPRESSION LOADS
- AXIAL STRESS**
- Modeling the effect of axial bronchial tension on expiratory flow p0067 A79-18957
- AXIOMS**
- Axiomatic summary and deductions from Hering's principles of visual direction p0228 A79-41421
- AXONS**
- A study of axonal degeneration in the optic nerves of aging mice p0095 A79-12123
 Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782 p0101 A79-23468
- AZINES**
- Clozapine metabolism in humans [BLR-RTS-10902] p0142 N79-18567
- AZOLES**
- NT INDOLES
- NT TRYPTOPHAN

B

- BACK INJURIES**
- Incidence of spinal disability amongst IAF pilots - Follow up of 38 cases p0201 A79-37133
 Vertebral fractures in Gnat ejections p0201 A79-37134
 Functional anatomy of vertebral column with reference to load bearing areas p0272 A79-49732
 Radiological diagnosis of spinal injuries and deformities p0272 A79-49735
 Assessment of spinal disabilities in relation to flying p0272 A79-49736
 Spinal injuries in the F/FB-111 crew escape system p0274 A79-49996
 Dynamic response of vertebral elements related to USAF injury [AD-A059489] p0071 N79-14713
 Radiological examination of the Pachis and fitness for employment as a helicopter pilot p0151 N79-19634
- BACKGROUND NOISE**
- Nonparametric model for the detection of signals observed by a human operator on a CRT screen on a noise background --- cathode-ray tube p0159 A79-28565
 Information-handling capacity of a human operator in detection of signals against a noisy background p0081 N79-14989
 Predicting individual listener confusions in the classification of complex, steady-state sounds [AD-A066704] p0222 N79-25755
- BACKSCATTERING**
- X-ray backscatter imaging

- BACTERIA p0176 N79-21754
- NT CLOSTRIDIUM BOTULINUM
NT ESCHERICHIA
NT NITROBACTER
NT SALMONELLA
Characterization of a novel extremely alkalophilic bacterium p0004 A79-11950
- Effects of magnesium, calcium, and serum on reversion of stable L-forms --- of soil bacterium p0131 A79-26140
- Effects of low temperature on in vivo and in vitro protein synthesis in Escherichia coli and Pseudomonas fluorescens p0131 A79-26141
- Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation p0131 A79-26147
- Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution p0205 A79-37968
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- Relationship between proton motive force and potassium ion transport in Halobacterium halobium envelope vesicles p0227 A79-40775
- Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
- Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria --- Rayleigh-Gans-Debye p0233 A79-42448
- Increased survival in experimental dog heatstroke after reduction of gut flora p0266 A79-47335
- Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
- Light-driven solute transport in Halobacterium halobium p0270 A79-49194
- Minute tubular forms in soil p0297 A79-51698
- Attachment to autoclaved soil of bacterial cells from pure cultures of soil isolates p0297 A79-51701
- Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715
- Mechanisms of recombination and function of DNA in bacteria [ORO-3941-33] p0072 N79-14715
- Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
- Mechanism of plant virus inactivation in soil injected with municipal wastewater and treatment plant sludges [PB-287012/9] p0107 N79-16513
- The utilisation of organic compounds by purple bacteria in the presence of light [BLL-RTS-11213] p0141 N79-18556
- A biochemical basis of obligate anaerobiosis p0142 N79-18561
- Effects of lead on subcellular components in bacteria p0142 N79-18565
- Bacteria in a North Carolina salt marsh. Standing crop and importance in the decomposition of Spartina alterniflora [PB-288816/2] p0153 N79-19668
- Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643
- Microbial transformation of nucleosides [NASA-CP-15869] p0197 N79-25704
- BACTERIOLOGY**
- In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria p0131 A79-26100
- Use of platinum electrodes for the electrochemical detection of bacteria
- p0131 A79-26146
- Evolutionary relationship based on a biochemical study of energy-acquiring system between Nitrosomonas europaea and Thiobacillus novellus p0205 A79-37966
- Sulfate-reducing bacteria and biochemical evolution p0205 A79-37967
- Control by episome on salt-resistance in bacteria p0205 A79-37969
- An ultraviolet light induced bacteriophage in Beneckea gazogenes --- organism growth on precambrian earth p0254 A79-46463
- Energy transduction in Halobacterium halobium p0300 A79-53000
- The utilisation of organic compounds by purple bacteria in the presence of light [BLL-RTS-11213] p0141 N79-18556
- BACTERIOPHAGES**
- Possible contribution of transferable exogenous DNA in prokaryotic evolution p0205 A79-37971
- Subcellular organisms and evolution of cell structure p0206 A79-37978
- Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- An ultraviolet light induced bacteriophage in Beneckea gazogenes --- organism growth on precambrian earth p0254 A79-46463
- BAGS**
- NT AIR BAG RESTRAINT DEVICES
- NT GAS BAGS
- Gas diffusion liquid storage bag and method of use for storing blood [NASA-CASE-NPO-13930-1] p0076 N79-14749
- BALANCE**
- Balance training of the equilibrium organ and its effect on flight strategy p0242 N79-27074
- BALLOON FLIGHT**
- Genetic effects of balloon flight in Drosophila melanogaster p0006 A79-12520
- BANDWIDTH**
- NT BROADBAND
- The human as a detector of changes in variance and bandwidth p0117 N79-17496
- BANKING FLIGHT**
- U TURNING FLIGHT
- BARDEEN APPROXIMATION**
- U ELECTRICAL PROPERTIES
- BARITE**
- Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611] p0175 N79-21744
- BAROMETRIC PRESSURE**
- U ATMOSPHERIC PRESSURE
- BARTOTRAUMA**
- Aeromedical aspects of otolaryngology p0136 A79-27562
- Cases of probable Aero Otitis interna p0183 A79-33194
- Doppler detection of thresholds for decompression-induced venous gas emboli in the awake rat p0202 A79-37707
- BAYES THEOREM**
- Some Bayesian inference procedures for use in developing an impact acceleration injury prediction model [AD-A067228] p0220 N79-25741
- BAYESIAN STATISTICS**
- U BAYES THEOREM
- BAYS (TOPOGRAPHIC FEATURES)**
- NT CHESAPEAKE BAY (US)
- BEAMS (RADIATION)**
- NT LIGHT BEAMS
- NT PROTON BEAMS
- BEARING (DIRECTION)**
- Investigations into the importance of the direction of centrifugal forces acting on the human body [FAE-LIB-TRANS-1945] p0077 N79-14758

BED REST

- Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study [NASA-SP-430] p0054 N79-13686
 Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
 Development of an hypothesis for simulating anti-orthostatic bed rest [NASA-CR-160200] p0217 N79-25717
 Study report on modification of the long term circulatory model for the simulation of bed rest [NASA-CR-160186] p0218 N79-25727
 Improvements and validation of the erythropoiesis control model for bed rest simulation [NASA-CR-160187] p0218 N79-25728
 Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797

BEHAVIOR

- NT DECONDITIONING
 NT HUMAN BEHAVIOR
 Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour p0047 A79-15493
 Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
 Quantitative analysis of mating behavior in aging male Drosophila Melanogaster p0252 A79-44799
 Translations on USSR science and technology: Biomedical and behavioral sciences, no. 50 [JPRS-72462] p0170 N79-20720

BELGIUM

- Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force p0290 N79-31945

BELL AIRCRAFT

- NT UH-1 HELICOPTER

BENCHES

- U SEATS

BENDS (PHYSIOLOGY)

- U DECOMPRESSION SICKNESS

BENZENE POISONING

- Assessment of human exposures to atmospheric benzene [PB-284203/7] p0051 N79-12701

BETA PARTICLES

- Beta-adrenoceptor antagonists: Central effects p0027 N79-11702

BIBLIOGRAPHIES

- Pathophysiology of overloads: Bibliography of Soviet publications --- Russian book p0200 A79-36385
 Eutrophication. Volume 2: A bibliography with abstracts [NTIS/PS-78/0771/2] p0013 N79-10695
 Eutrophication. Volume 3: A bibliography with abstracts [NTIS/PS-78/0772/0] p0013 N79-10696
 Biocompatible materials, volume 2. A bibliography with abstracts [NTIS/PS-78/0675/5] p0019 N79-10736
 A critically annotated bibliography of the literature on human factors in computer systems [AD-A058081] p0052 N79-12707
 Ecosystem models, volume 3. A bibliography with abstracts [NTIS/PS-78/1146/6] p0054 N79-13678
 Ecosystem models, volume 2. A bibliography with abstracts [NTIS/PS-78/1145/8] p0054 N79-13679
 The toxicology of ozone. A bibliography with abstracts [NTIS/PS-78/1120/1] p0057 N79-13705
 Information processing in humans, volume 2. A bibliography with abstracts [NTIS/PS-78/1153/2] p0058 N79-13709
 Information processing in humans, volume 3. A bibliography with abstracts [NTIS/PS-78/1154/0] p0058 N79-13710
 Anthropometric source book. Volume 3: Annotated bibliography of anthropometry [NASA-RP-1024-VOL-3] p0058 N79-13712

Human work measurement. A bibliography with abstracts

- [NTIS/PS-78/1197/9] p0081 N79-14781

Stress factors on pilot performance. A bibliography with abstracts

- [NTIS/PS-78/1289/4] p0145 N79-18589

Biological effects of laser radiation, volume 1. A bibliography with abstracts

- [NTIS/PS-79/0019/4] p0176 N79-21760

Biological effects of laser radiation, volume 2. A Bibliography with abstracts

- [NTIS/PS-79/0020/2] p0176 N79-21761

Effects of fatigue on human behavior and performance. A bibliography with abstracts

- [NTIS/PS-79/0071/5] p0177 N79-21762

Aircraft sonic boom: Biological effects. A bibliography with abstracts

- [NTIS/PS-79/0190/3] p0214 N79-24650

Flight simulator training, volume 2. A bibliography with abstracts

- [NTIS/PS-79/0277/8] p0222 N79-25758

Index to FAA Office of Aviation Medicine reports: 1961 through 1978

- [AD-A067983] p0240 N79-26773

Cardiovascular diseases, volume 3. A bibliography with abstracts

- [NTIS/PS-79/0063/2] p0260 N79-28874

Stress factors on pilot performance. Citations from the International Aerospace Abstracts data base

- [NTIS/PS-79/0506/0] p0260 N79-28878

Altitude hypoxia, volume 1. A bibliography with abstracts

- [NTIS/PS-79/0427/9] p0280 N79-30927

Altitude hypoxia, volume 2. A bibliography with abstracts

- [NTIS/PS-79/0428/7] p0280 N79-30928

Biological effects of microwaves, volume 1. A bibliography with abstracts

- [NTIS/PS-79/0432/9] p0280 N79-30929

Biological effects of microwaves, volume 2. A bibliography with abstracts

- [NTIS/PS-79/0433/7] p0280 N79-30930

Hypothermia. A bibliography with abstracts

- [NTIS/PS-79/0533/4] p0308 N79-32830

Hyperbaric oxygenation. A bibliography with abstracts

- [NTIS/PS-79/0744/7] p0317 N79-33837

Human memory. A bibliography with abstracts

- [NTIS/PS-79/0640/7] p0318 N79-33847

Publications of the planetary biology program for 1978: A special bibliography

- [NASA-TM-80745] p0319 N79-33854

BINARY DATA

- Application of pseudo random binary sequence input to identification of respiratory control dynamics p0268 A79-48011

DIGITAL SYSTEMS (DIGITAL)

- U DIGITAL SYSTEMS

BINOCULAR VISION

- The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight p0062 A79-18206

The perceived direction of the binocular image

- p0104 A79-24069

Correlation of binocular vision test results with synaptophore evaluation

- p0201 A79-37136

The relationship between the apparent vertical and the vertical horopter --- visual perception of luminous line

- p0225 A79-40186

The influence of rapid prism adaptation upon fixation disparity

- p0231 A79-42230

Visual angle constancy for the subjective checkerboard pattern, as an indication of cortical origination of size constancy

- p0231 A79-42232

Spatial frequency masking in human vision - Binocular interactions

- p0232 A79-42284

Eye torsion and visual tilt are mediated by different binocular processes

- p0256 A79-46651

Stereopsis in monkeys using random dot stereograms

- The effect of viewing duration p0271 A79-49481

BIOACOUSTICS

SUBJECT INDEX

- Dynamic measurement of human cyclofusional eye movements p0142 N79-18575
- BIOACOUSTICS**
- A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0045 A79-14602
- Elicited acoustic responses to meaningful and meaningless verbal stimuli p0276 A79-50654
- The effective acoustic environment of helicopter crewmen p0152 N79-19645
- BIOASSAY**
- Studies on the bioassayable growth hormone-like activity of plasma p0267 A79-47848
- Clinical usefulness of radiopaque markers in left ventricular function p0293 A79-51029
- A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles p0294 A79-51038
- Bioassay of thermal protection afforded by candidate flight suit fabrics p0298 A79-52280
- Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1] p0050 N79-12694
- Biomedical data validation through an on-line computer system [PB-285249/9] p0057 N79-13700
- Determination of a generalized output index of a biological experiment after multiple tests p0076 N79-14744
- Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
- A porcine bioassay study of the physiological effects of fiber and dye degradation products (PDP) on burn wound healing [AD-A066990] N79-25748
- Evaluation of four thermally protective fabrics using the USAFRL bioassay method [AD-A067351] p0223 N79-25762
- Mutagenic components of alternate energy sources [CONF-780636-8] p0280 N79-30923
- Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
- BIOASTRONAUTICS**
- Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56] p0003 A79-11224
- Medical control in prolonged space flights [IAF PAPER 78-63] p0003 A79-11226
- Space medicine - A prognosis for future research [IAF PAPER 78-ST-17] p0003 A79-11364
- Life sciences and space research XVI; Proceedings of the Open Meetings of the Working Group on Space Biology, Tel Aviv, Israel, June 7-18, 1977 p0005 A79-12508
- Mechanism of the formation of phosphenes by X-rays p0006 A79-12516
- An apparatus for studying electroretinographic responses under conditions of space flight p0006 A79-12517
- ECLSS definition for a low cost space construction base --- Environmental Control Life Support Systems [ASME PAPER 78-ENAS-15] p0007 A79-12564
- Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574
- Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
- Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37] p0008 A79-12584
- Spacelab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129] p0041 A79-14081
- Medical characteristics of the Spacelab life support system [DGLR PAPER 78-130] p0041 A79-14082
- Development of space biology experiments for the Space Shuttle - A student's perspective [AAS PAPER 78-134] p0099 A79-21252
- The European life sciences experiments onboard the first Spacelab mission p0100 A79-22254
- Light flashes in space --- cosmic ray interaction with astronaut visual system p0100 A79-22261
- Space biology and medicine p0132 A79-26344
- Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666
- The biomedical implications of engineering in space p0166 A79-31122
- Medicobiological research within the framework of the scientific program 'Intercosmos' p0181 A79-32658
- Spaceflight and bone turnover - Correlation with a new rat model of weightlessness p0182 A79-33049
- Space biology and aerospace medicine p0226 A79-40734
- The Biostack experiment in the U.S. long exposure duration test program p0227 A79-41230
- Closed ecology in space from a bioengineering perspective p0228 A79-41703
- Erythropoietic effects of space flight p0231 A79-42193
- The application of vectorcardiography to aerospace medicine p0256 A79-46602
- Ultrastructural development of the vestibular system under conditions of simulated weightlessness p0298 A79-52284
- Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76] p0301 A79-53285
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
- Ultrastructural development of the vestibular system of frog larvae in 0g simulation [IAF PAPER 79-78] p0301 A79-53287
- Equipment for surgical interventions and childbirth in weightlessness [IAF PAPER 79-97] p0302 A79-53296
- US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525] p0020 N79-11651
- US experiments flown on COSMOS 782 p0020 N79-11652
- Technology advancement of an oxygen generation subsystem [NASA-CR-152257] p0261 N79-28883
- BIOCHEMISTRY**
- NT BACTERIOLOGY
- NT BIOGEOCHEMISTRY
- NT ENZYMOLOGY
- NT PHYSIOCHEMISTRY
- Current conceptions of the mechanism of the effect of chemical stimulus on taste receptors p0043 A79-14375
- Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and bovine growth hormones p0069 A79-19449
- The growth of single crystals from proteins in gravity-free space [RIAA PAPER 79-0311] p0069 A79-19665
- Metal porphyrins in pre-Cambrian deposits as a probable evidence for early photosynthesis p0165 A79-30695
- The problem of optimally fast response as solved by the nerve cell p0166 A79-31179
- Incorporation of sulphur in chemical evolution p0203 A79-37938
- Takeover mechanisms and early biochemical evolution p0205 A79-37965
- Evolutionary relationship based on a biochemical study of energy-acquiring system between Nitrosomonas europaea and Thiobacillus novellus p0205 A79-37966

- Sulfate-reducing bacteria and biochemical evolution p0205 A79-37967
- Possible contribution of transferable exogenous DNA in prokaryotic evolution p0205 A79-37971
- Evolution in open systems - Acquisition and conservation of information in boids p0207 A79-37987
- Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
- Mirror symmetry breaking in biochemical evolution p0254 A79-46462
- Solar-driven chemical energy source for a Martian biota p0254 A79-46464
- Morphological and biochemical effects of oxygen toxicity [AD-A056778] p0018 N79-10734
- Dynamics of Cosmonauts' blood biochemistry during space missions p0072 N79-14717
- Translations on USSR science and technology: Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606] p0074 N79-14736
- Orthomolecular enhancement of human development p0095 N79-15895
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57 [JPRS-72808] p0121 N79-17526
- A biochemical basis of obligate anaerobiosis p0142 N79-18561
- Clozapine metabolism in humans [BLL-RTS-10902] p0142 N79-18567
- Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite --- effects of space flight stress p0192 N79-23631
- Binding of biologically active agents to plasma proteins [CL-1977-22] p0261 N79-29787
- Mutagenic components of alternate energy sources [CONF-780636-8] p0280 N79-30923
- Energy transfer mechanisms in photobiological reactions [C00-875-180] p0283 N79-31898
- Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- BIOCONTROL SYSTEMS**
- Lateral orientation and cerebral activation - Considerations for information display p0037 A79-13194
- Simulation and control of a human temperature regulation system p0041 A79-13613
- Effects of information processing requirements on reaction time of the eye p0064 A79-18219
- Biped stability considerations with vestibular models p0066 A79-18287
- Automatic control of physiological functions of the human organism in pathology --- Russian book p0132 A79-26350
- Cyclic nucleotides and adaptation of the organism --- Russian Book p0133 A79-26500
- Process of search control of coordinated movement in man p0166 A79-30701
- Effect of the blockade of hypothalamic adrenergic structures on thermoregulatory reactions p0167 A79-31950
- Control theory and biosystems: Analysis of homeostatic properties --- Russian book p0186 A79-34506
- Self-regulation of cerebral circulation under orthostatic influences p0221 A79-36098
- Neural regulation of coronary circulation p0208 A79-38148
- Central and reflex mechanisms of controlling movements --- Russian book p0251 A79-43950
- Application of pseudo random binary sequence input to identification of respiratory control dynamics
- Characteristics of somatic and autonomic regulation during work of small muscle groups as a function of loading regime p0276 A79-50653
- Calcium regulation in smooth muscle: Isolation and characterization of the myosin light chain kinase p0024 N79-11680
- User's instructions for the 41-node thermoregulatory model (steady state version) [NASA-CR-160220] p0212 N79-24638
- Acid-base homeostasis in the human system [NASA-CR-160222] p0212 N79-24640
- User's instructions for the erythropoiesis regulatory model [NASA-CR-160193] p0216 N79-25711
- Use of a computer model in the understanding of erythropoietic control mechanisms [NASA-CR-160201] p0217 N79-25718
- Dynamic regulation of erythropoiesis: A computer model of general applicability [NASA-CR-160203] p0217 N79-25720
- Fluid and electrolyte control systems in the human body: A study report [NASA-CR-160210] p0217 N79-25723
- On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
- Improvements and validation of the erythropoiesis control model for bed rest simulation [NASA-CR-160187] p0218 N79-25728
- User's instructions for the Guyton circulatory dynamics model using the Univac 1110 batch and demand processing (with graphic capabilities) [NASA-CR-160215] p0219 N79-25731
- Study report on guidelines and test procedures for investigating stability of nonlinear cardiovascular control system models [NASA-CR-160229] p0219 N79-25734
- The application of systems analysis and mathematical models to the study of erythropoiesis during space flight [NASA-CR-160218] p0219 N79-25739
- BIODEGRADATION**
- Waste treatment options for use in closed systems --- in space colonies [AIAA PAPER 79-1409] p0187 A79-34843
- BIODYNAMICS**
- Various modeling approaches in biomechanics --- analog simulation of impact events p0005 A79-12407
- Anatomical frames of reference and biomechanics p0065 A79-18230
- Anatomical coordinate systems for human body segments p0065 A79-18231
- Can man be calculated - Biological models in aeronautical medicine and engineering p0161 A79-29589
- Biodynamic effects of canopy loss in the TF-15 aircraft p0163 A79-30651
- Process of search control of coordinated movement in man p0166 A79-30701
- Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702
- Central and reflex mechanisms of controlling movements --- Russian book p0251 A79-43950
- Biodynamics of aviation stresses on the vertebral column p0272 A79-49733
- Problem of modeling the mechanism of heart contraction p0275 A79-50287
- Mechanism for the regulation of human posture during movements of the foot p0276 A79-50651
- Biomechanical properties of muscles and the efficiency of movement p0276 A79-50652
- Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiograms p0276 A79-50658

- Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia p0277 A79-50905
- Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle p0296 A79-51111
- Passive resistive torques about long bone axes of major human joints p0298 A79-52283
- A spherical representation of a human body for visualizing movement p0301 A79-53096
- Theoretical foundations of cardiovascular processes --- Book p0304 A79-53531
- Basic biomechanics equations for cardiovascular flow p0304 A79-53534
- Equations on biotransport mechanisms p0304 A79-53535
- Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
- Analysis and validation of human biodynamic models [AD-A059013] p0058 N79-13714
- A study of the effect of forcing function characteristics on human operator dynamics in manual control p0086 N79-15590
- Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006] p0157 N79-19690
- Prosthesis coupling [NASA-CASE-KSC-11069-1] p0240 N79-26772
- Effects of vibration on the human organism p0249 N79-27862
- Operator performance and localized muscle fatigue in a simulated space vehicle control task [NASA-TM-58220] p0259 N79-28867
- Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253] p0284 N79-31901
- Prediction of whole-body response to impact forces in flight environments p0284 N79-31902
- Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903
- A three dimensional discrete element dynamic model of the spine, head and torso p0285 N79-31910
- Application of biodynamic models to the analysis of F-16 canopy birdstrike p0285 N79-31911
- A failure criterion for human, vertebral, cancellous bone p0285 N79-31912
- The use of spinal analogue to compare human tolerance of repeated shocks with tolerance of vibration, part 1 p0288 N79-31926
- The biodynamic response of the human body and its application to standards p0288 N79-31929
- Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826
- BIOELECTRIC POTENTIAL**
- The event related cortical potential as an index of task workload p0038 A79-13208
- Evoked potential correlates of display image quality p0068 A79-18998
- ST isopotential precordial surface maps in patients with acute myocardial infarction p0098 A79-21245
- Electromagnetic fields and power deposition in body-of-revolution models of man p0130 A79-26007
- Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation p0159 A79-28735
- Elicited acoustic responses to meaningful and meaningless verbal stimuli p0276 A79-50654
- Nonshivering thermogenesis in normal and dystrophic muscle p0054 N79-13680
- Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction p0108 N79-16521
- Synchronous brain evoked potential correlates of directed attention in humans p0110 N79-16537
- BIOELECTRICITY**
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His --- neural activity effects on heart block p0103 A79-23955
- Effects of vestibular stimuli on the electrical activity of muscles p0187 A79-35121
- Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves p0188 A79-35917
- A hypothesis of plasmonic absorption of RF energy by biological objects p0233 A79-42506
- An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals --- Specific Absorption Rate p0278 A79-51015
- The effect of impact acceleration on the electrical activity of the brain p0287 N79-31921
- Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- Methods for localization of electrical sources in the human brain and applications to the visual system p0314 N79-33815
- Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs [AD-A070299] p0314 N79-33821
- Experimental and theoretical investigations concerning a frequency filter behavior of the human retina regarding electric pulse currents [NASA-TM-75372] p0314 N79-33822
- BIOENGINEERING**
- NT ANTHROPOOMETRY
- NT BIOINSTRUMENTATION
- NT BIOMETRICS
- NT BIOTELEMETRY
- NT BODY MEASUREMENT (BIOLOGY)
- NT CARDIOGRAPHY
- NT ECHOCARDIOGRAPHY
- NT ELECTROCARDIOGRAPHY
- NT ELECTROENCEPHALOGRAPHY
- NT ELECTROMYOGRAPHY
- NT ELECTROPLETHYSMOGRAPHY
- NT ELECTRORETINOGRAPHY
- NT MAGNETOCARDIOGRAPHY
- NT PHONOCARDIOGRAPHY
- NT PLETHYSMOGRAPHY
- NT SEISMOCARDIOGRAPHY
- NT VECTORCARDIOGRAPHY
- Medical technology transfer p0048 A79-16138
- A bioengineering simulator of the human visual apparatus p0166 A79-31180
- The eccentric spheres model as the basis for a study of the role of geometry and inhomogeneities in electrocardiography p0226 A79-40649
- Closed ecology in space from a bioengineering perspective p0228 A79-41703
- Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration p0229 A79-41704
- Prosthetic urinary sphincter [NASA-CASE-MPS-23717-1] p0077 N79-14756
- Improved subcutaneous electrode structure [NASA-CASE-ARC-11117-1] p0084 N79-15576
- A compact low-volume, self-regenerating artificial kidney [PB-287808/0] p0123 N79-17545

- Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis p0153 N79-19662
- Prosthesis coupling [NASA-CASE-KSC-11069-1] p0240 N79-26772
- Application of biodynamic models to the analysis of F-16 canopy birdstrike p0285 N79-31911
- The validation of biodynamic models p0286 N79-31914
- Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
- Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826
- BIOGENESIS**
- U BIOLOGICAL EVOLUTION
- BIOGEOCHEMISTRY**
- Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419
- A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem p0132 A79-26373
- Chemical fingerprints of life in terrestrial soils and their possible use for the detection of life on Mars and other planets p0136 A79-27929
- Amino acids in southern Kamchatka hot springs p0182 A79-33122
- Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
- BIOGRAPHY**
- Paul Bert [NASA-TM-75599] p0055 N79-13687
- BIOINSTRUMENTATION**
- NT BIOTELEMETRY
- NT IMPLANTED ELECTRODES (BIOLOGY)
- Radio tracking of a fin whale /Balaenoptera physalus/ p0061 A79-18008
- Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges p0129 A79-24878
- A binocular stereoscopic display system for echocardiography p0130 A79-26072
- The effects of filtering the His-Purkinje system electrocardiogram p0130 A79-26073
- Use of platinum electrodes for the electrochemical detection of bacteria p0131 A79-26146
- Devices for synchronizing a digital measuring apparatus with biological signals p0160 A79-29271
- A tethering system for direct measurement of cardiovascular function in the caged baboon p0200 A79-36576
- Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers p0210 A79-39509
- Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300
- Skin-resistance measuring device with higher resolution p0252 A79-45476
- Portable device for detection of petit mal epilepsy p0254 A79-46226
- Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
- Continuous long-duration recording of the heart rate by means of a noncontact technique p0300 A79-53068
- Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAY PAPER 79-88] p0302 A79-53291
- Subcutaneous channeling probe [NASA-CASE-ARC-11091-1] p0025 N79-11684
- The Physical Basis of Electromagnetic Interactions with Biological Systems [HEW-PUB-FDA-78-8055] p0081 N79-15551
- A wide aperture focussed ultrasound system for detection of breast carcinoma by ultrasonic attenuation p0142 N79-18577
- Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] p0144 N79-18580
- Magnitude estimation as a hearing aid selection procedure p0246 N79-27838
- Development and application of resistive pulse spectroscopy: Studies on the size, form and deformability of red blood cells [LBL-8640] p0280 N79-30924
- Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
- BIOLOGICAL ACTIVITY**
- U ACTIVITY (BIOLOGY)
- BIOLOGICAL ANALYSIS**
- U BIOASSAY
- BIOLOGICAL CELLS**
- U CELLS (BIOLOGY)
- BIOLOGICAL CLOCKS**
- U RHYTHM (BIOLOGY)
- BIOLOGICAL EFFECTS**
- The effect of plasmoidal slime on the metabolism of haploid cells of Physarum flavidum and the respiration of isolated mitochondria p0105 A79-24513
- Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges p0129 A79-24878
- Effects of magnesium, calcium, and serum on reversion of stable L-forms --- of soil bacterium p0131 A79-26140
- Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
- Biological effects of electromagnetic fields p0184 A79-33711
- Biological effects of electromagnetic fields p0184 A79-33712
- Effect of electromagnetic fields in long-, medium-, and short-wave ranges on biological objects p0185 A79-33713
- Cell mechanisms for the biological effects of electromagnetic fields p0188 A79-35569
- The Biostack experiment in the U.S. long exposure duration test program p0227 A79-41230
- Closed ecology in space from a bioengineering perspective p0228 A79-41703
- Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- A mechanism for high-frequency electromagnetical field-induced biological damage p0231 A79-41847
- Protection standards for microwave and radiofrequency radiations p0300 A79-52878
- Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104 p0021 N79-11659
- Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
- Effects of weightlessness on the genetics and aging process of drosophila melanogaster p0023 N79-11673
- Effect of weightlessness and centrifugation (LKG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers p0024 N79-11679
- Quantitative review of human susceptibility to magnetic fields [UCID-17773] p0026 N79-11691

- The effects of strong shock waves on mortality rates and percentages of pulmonary lesions in rats as a function of the number of exposures [NASA-TM-75598] p0053 N79-13676
- Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
- Translations on USSR science and technology: Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606] p0074 N79-14736
- Effects of microwaves on catecholamine metabolism in the brain p0075 N79-14739
- Effects of electromagnetic field induction on development of the green algae, scenedesmus quadricauda (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- Dependence of the functional activity of liver mitochondria on microwave radiation --- oxidative phosphorylation p0075 N79-14741
- The Physical Basis of Electromagnetic Interactions with Biological Systems [HEW-PUB-FDA-78-8055] p0081 N79-15551
- Survey of microwave and radiofrequency biological effects and mechanisms p0082 N79-15552
- Molecular absorption of non-ionizing radiation in biological systems p0082 N79-15553
- Millimeter wave and far infrared absorption in biological systems p0082 N79-15554
- Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555
- Classical theory of microwave interactions with biological systems p0082 N79-15556
- The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
- A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
- Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873] p0107 N79-16512
- Early diagnosis for decompression sickness. Changes in the blood found shortly after decompression. Part 2: Experiments on rats [MBL-1978-7] p0120 N79-17524
- Chemical protection against ionizing radiation: A survey of possible mechanisms [MBL-1977-8] p0122 N79-17540
- The effects of H₂SO₄ on men and H₂SO₄ and O₃ on laboratory animals p0141 N79-18354
- Effects of lead on subcellular components in bacteria p0142 N79-18565
- Risks from various products used in paint spraying [LBL-RTS-11499] p0142 N79-18569
- Health effects associated with diesel exhaust emissions, literature review and evaluation [PB-289817/9] p0171 N79-20727
- A technical review of the biological effects of non-ionizing radiation [PB-290166/8] p0171 N79-20728
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 59. Effects of nonionizing electromagnetic radiation [JPRS-72956] p0171 N79-20732
- Biological effects of a magnetic field p0172 N79-20734
- Effect of radio waves of a millimeter frequency range on the body of man and animals p0172 N79-20735
- Magnetic field effect on radial processes in biological membranes p0172 N79-20737
- Effect of infra-low-frequency magnetic fields on cell division p0173 N79-20739
- The influence of SHF electromagnetic fields on the secretory function of the stomach p0173 N79-20740
- Biological effects of laser radiation, volume 2. A Bibliography with abstracts [NTIS/PS-79/0020/2] p0176 N79-21761
- Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite --- effects of space flight stress p0192 N79-23631
- The adrenosympathetic system in the presence of traumatic shock during simulation of effects of weightlessness on the human body p0192 N79-23633
- User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735
- Space biology and aerospace medicine, v. 13, no. 3, 1979 [JPRS-73784] p0243 N79-27817
- Helium-oxygen mixture and the organism hyperbaric aspect p0243 N79-27818
- The combined effect of space flight factors and radiation on rat skeletal muscles p0244 N79-27821
- Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites p0244 N79-27824
- Biological effects of laser irradiation on nerve cells p0247 N79-27840
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 81 [JPRS-73729] p0249 N79-27860
- Results of benthic studies at Calvert Cliffs [PB-294261/3] p0261 N79-29788
- Uncommon hypersensitivity to contacting cold water and cold air with propagated reflex-like erythema development [BLL-RTS-11644] p0279 N79-30917
- Mutagenic components of alternate energy sources [CONF-780636-8] p0280 N79-30923
- Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- Immunobiological reactivity of the body under hyperbaric and hypobaric conditions p0310 N79-33790
- Biological effects of nonionizing electromagnetic radiation, volume 3, number 4 [AD-A070242] p0315 N79-33826
- Metabolic and physical scaling in microwave/radiofrequency bioeffects studies [UR-3490-1561] p0316 N79-33831
- Feasibility of an epidemiological study of workers occupationally exposed to high voltage electric fields in the electric power industry [EPRI-EA-1020] p0316 N79-33832
- Effects on populations of exposure to low levels of ionizing radiation: Implications for nuclear energy and medical radiation [LBL-9084] p0316 N79-33833
- BIOLOGICAL EVOLUTION**
- NT ABIOTGENESIS
- On the reality of extraterrestrial biogenesis [IAF PAPER 78-A-51] p0003 A79-11344
- The augmentation algorithm and molecular phylogenetic trees p0070 A79-20267
- The evolution of the environment and its influence on the evolution of life p0099 A79-22076
- Speculations of the evolution of the genetic code. II p0099 A79-22080
- Evolution of a genetic code simulated with the computer p0100 A79-22081
- The physical appearance of intelligent aliens p0105 A79-24519
- The origin of life on earth - Recent studies p0134 A79-27335
- Metal porphyrins in pre-Cambrian deposits as a probable evidence for early photosynthesis p0165 A79-30695
- Chirality of compounds essential for the existence of life, and the possibility of its evolution in

- the universe p0186 A79-34464
- A review of recent concepts of the problem of the origin of life p0221 A79-36041
- Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'margranules' in a modified sea medium p0204 A79-37964
- Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution p0205 A79-37968
- Evolution of enzyme function - The coupled oscillator theory p0205 A79-37970
- Possible contribution of transferable exogenous DNA in prokaryotic evolution p0205 A79-37971
- The point mutation process in proteins p0205 A79-37972
- Nucleotide-binding site data and the origin of the genetic code p0206 A79-37974
- Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature p0206 A79-37976
- Membranous evolution in the primitive cell p0206 A79-37977
- Subcellular organisms and evolution of cell structure p0206 A79-37978
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- The study of the origin of life - Results and prospects p0206 A79-37981
- The crisis in the problem of the origin of life p0207 A79-37982
- The importance of the physical laws on the origin and evolution of life p0207 A79-37983
- The origin of the protein synthesis mechanism p0207 A79-37986
- Evolution in open systems - Acquisition and conservation of information in bioids p0207 A79-37987
- Are evolutionary rates really variable --- in vertebrate protein chemistry p0232 A79-42273
- Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
- Carbon suboxide and the genetic code --- in biochemical evolution p0252 A79-44865
- Goodman et al.'s method for augmenting the number of nucleotide substitutions p0253 A79-45639
- On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei --- for mutational change in protein evolution p0253 A79-45640
- A proposal concerning the origin of life on the planet earth p0253 A79-45641
- Inadequacy of prebiotic synthesis as origin of proteinous amino acids p0253 A79-45643
- Augmentation algorithm - A reply to Holmquist --- for nucleotide substitutions p0253 A79-45644
- Molecular phylogenetic trees - On the validity of the Goodman-Moore augmentation algorithm p0253 A79-45645
- Mirror symmetry breaking in biochemical evolution p0254 A79-46462
- Evolution of the biosphere /2nd enlarged edition/ --- Russian book p0270 A79-48310
- The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
- Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988] p0081 N79-14782
- Prebiotic coordination chemistry: The potential role of transition-metal complexes in the chemical evolution [NASA-TM-75381] p0169 N79-20715
- Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
- BIOLOGICAL MODELS**
- U BIONICS
- BIOLOGICAL RHYTHM**
- U RHYTHM (BIOLOGY)
- BIOLOGY**
- Control theory and biosystems: Analysis of homeostatic properties --- Russian book p0186 A79-34506
- Biological effects of nonionizing electromagnetic radiation. Volume 2, number 4: A digest of current literature [AD-A055569] p0055 N79-13689
- Some of the problems involved in planning biological experiments p0312 N79-33805
- BIOMAGNETISM**
- Biomagnetism and artificial magnetic stimulation of living structures [IAF PAPER 78-52] p0002 A79-11222
- Biomagnetic instrumentation and measurement p0295 A79-51043
- Clinical magnetocardiography p0295 A79-51044
- BIOMASS**
- Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- A photometer for determining the biomass of microorgan from the ATP content [BLL-RTS-11456] p0141 N79-18555
- Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- Automated biowaste sampling system feces monitoring system [NASA-CR-160301] p0281 N79-30937
- BIOMASS ENERGY PRODUCTION**
- Impact of large scale aquatic biomass systems [PB-282617/0] p0013 N79-10697
- Determination of the secondary production and population dynamics of the zooplankton of the Lake Champlain ecosystem [PB-286094/8] p0084 N79-15572
- BIOMECHANICS**
- U BIODYNAMICS
- BIOMEDICAL DATA**
- Medical control in prolonged space flights [IAF PAPER 78-63] p0003 A79-11226
- The European life sciences experiments onboard the first Spacelab mission [ASME PAPER 78-ENAS-24] p0007 A79-12573
- Medicobiological research within the framework of the scientific program 'Intercosmos' p0181 A79-32658
- Space biology and aerospace medicine p0226 A79-40734
- New inventory for the assessment of symptom occurrence and severity at high altitude p0273 A79-49991
- Follow-up and transversal study of vital capacity and FEV sub values among personnel of the Belgian Army forces p0028 N79-11706
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 47 [JPRS-72134] p0071 N79-14708
- Dynamics of Cosmonauts' blood biochemistry during space missions p0072 N79-14717
- Telemedicine: An expanding new science on land and sea p0146 N79-19020
- Regional program for acquisition of medical experiments [NASA-CR-160121] p0155 N79-19677
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 50 [JPRS-72462] p0170 N79-20720

Translations on USSR science and technology:
 Biomedical and behavioral sciences, no. 59.
 Effects of nonionizing electromagnetic radiation
 [JPRS-72956] p0171 N79-20732

Translations on USSR science and technology:
 Biomedical and behavioral sciences, no. 60
 [JPRS-73135] p0175 N79-21745

Systems identification and application systems
 development for monitoring the physiological and
 health status of crewmen in space
 [NASA-CR-160235] p0212 N79-24642

A prioritized set of physiological measurements
 for future spaceflight experiments
 [NASA-CR-160202] p0217 N79-25719

Investigations of respiratory control systems
 simulation
 [NASA-CR-160213] p0218 N79-25726

User's guide for the Skylab integrated medical
 data analysis system
 [NASA-CR-160189] p0220 N79-25740

Biomedical ultrasonoscope
 [NASA-CASE-ARC-10994-2] p0240 N79-26771

Index to FAA Office of Aviation Medicine reports:
 1961 through 1978
 [AD-A067983] p0240 N79-26773

Introcular pressure reduction and regulation system
 [NASA-TM-79187] p0260 N79-28881

BIOMETRICS

NT ANTHROPOMETRY

NT BODY MEASUREMENT (BIOLOGY)

NT CARDIOPHYSICS

NT ECHOCARDIOGRAPHY

NT ELECTROCARDIOGRAPHY

NT ELECTROENCEPHALOGRAPHY

NT ELECTROMYOGRAPHY

NT ELECTROPLETHYSMOGRAPHY

NT ELECTROPETINOGRAPHY

NT MAGNETOCARDIOGRAPHY

NT PHONOCARDIOGRAPHY

NT PLETHYSMOGRAPHY

NT SEISMOCARDIOGRAPHY

NT VECTORCARDIOGRAPHY

Core temperature measurement in man p0010 A79-12862

The trajectories of saccadic eye movements p0065 A79-18250

Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His --- neural activity effects on heart block p0103 A79-23955

Caloric and exercise requirements of space flight - Biostereometric results from Skylab p0128 A79-24637

Specific problems in cardiovascular fluid dynamics measurements p0210 A79-39506

Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702

Determination of muscle mass changes in legs from K-40 measurements p0274 A79-49997

Theoretical foundations of cardiovascular processes --- Book p0304 A79-53531

Lung mechanics: Dynamic response, acoustic generation, and flow limitation p0017 N79-10727

Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs p0028 N79-11707

Anthropometric source book. Volume 2: A handbook of anthropometric data [NASA-RP-1024-VOL-2] p0058 N79-13711

Anthropometric source book. Volume 3: Annotated bibliography of anthropometry [NASA-RP-1024-VOL-3] p0058 N79-13712

Translations on USSR science and technology:
 Biomedical and behavioral sciences, no. 52 --- with emphasis on research management
 [JPRS-72604] p0078 N79-14760

New principles of automation of biomedical research p0078 N79-14763

Use of the systems analytic approach for organization and coordination of complex biomedical research p0079 N79-14767

Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] p0144 N79-18580

A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590] p0239 N79-26762

Biomedical ultrasonoscope [NASA-CASE-ARC-10994-2] p0240 N79-26771

Methods for localization of electrical sources in the human brain and applications to the visual system p0314 N79-33815

BIONICS

A biophysical model for evaluating auxiliary heating and cooling systems --- for protective clothing systems design [ASME PAPER 78-ENAS-33] p0008 A79-12581

Modeling heat transfer through human skin subjected to high external temperatures p0102 A79-23782

Linearization and sensitivity analysis of model for human eye movements p0102 A79-23783

Elements of the theory of biological analyzers --- Russian book p0132 A79-26450

Control systems for robots and manipulators --- Russian book p0134 A79-27303

Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna p0136 A79-27959

ISAAC-1 - A color sensing robot p0138 A79-28168

Can man be calculated - Biological models in aeronautical medicine and engineering p0161 A79-29589

A bioengineering simulator of the human visual apparatus p0166 A79-31180

Selecting the program of motions for a biped walking machine p0166 A79-31490

A two-stage model of visual search p0186 A79-33948

Control theory and biosystems: Analysis of homeostatic properties --- Russian book p0186 A79-34506

Some properties of conservative systems --- walking robot model p0221 A79-35942

A revised model of gas transport in human lungs p0253 A79-45768

Problem of modeling the mechanism of heart contraction p0275 A79-50287

A spherical representation of a human body for visualizing movement p0301 A79-53096

Bio-heat transfer processes, for human thermoregulatory and circulatory characteristics measurements p0304 A79-53536

Refinement and validation of a mathematical model of the human torso p0247 N79-27841

Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903

Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826

BIOPHYSICS

NT HEALTH PHYSICS

NT PUBLIC HEALTH

A biophysical model for evaluating auxiliary heating and cooling systems --- for protective clothing systems design [ASME PAPER 78-ENAS-33] p0008 A79-12581

The sensory systems --- Russian book on neurophysiology and biophysics research p0042 A79-14369

Model of human heat exchange and identification of its parameters Physiological studies and mathematical modeling p0159 A79-28739

SUBJECT INDEX

BLOOD

The development of laser exposure limits p0181 A79-32320
 Specific problems in cardiovascular fluid dynamics measurements p0210 A79-39506
 A hypothesis of plasmonic absorption of RF energy by biological objects p0233 A79-42506
 Protection against laser beams p0236 A79-43609
 Investigation of blood subjected to volume tension p0275 A79-50261
 The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia p0296 A79-51116
 Theoretical foundations of cardiovascular processes --- Book p0304 A79-53531
 The theory of the magnetocardiogram p0304 A79-53533
 Microwave thermography: Physical principles and diagnostic applications p0083 N79-15567
 Mechanics of mammalian lung p0247 N79-27844
 Fundamental biophysical aspects of decompression sickness [AN-A069998] p0315 N79-33827

BIOREGENERATION
 U REGENERATION (PHYSIOLOGY)
BIOREGENERATIVE LIFE SUPPORT SYSTEMS
 U CLOSED ECOLOGICAL SYSTEMS

BIOSATELLITES
 Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782 p0101 A79-23468
 The joint US-USSR biological satellite program p0182 A79-33050
 Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936 p0274 A79-49992
 US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-78526] p0023 N79-11671
 The Cosmos 936 mission p0023 N79-11672
 Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite p0311 N79-33795

BIOSENSORS
 U BIOINSTRUMENTATION
BIOSIMULATION
 U BIONICS
BIOSPHERE
 Evolution of the biosphere /2nd enlarged edition/ --- Russian book p0270 A79-48310

BIOSYNTHESIS
 The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus p0005 A79-12512
 Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425
 3'5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
 Effects of low temperature on in vivo and in vitro protein synthesis in Escherichia coli and Pseudomonas fluorescens p0131 A79-26141
 The origin of the protein synthesis mechanism p0207 A79-37986
 Inadequacy of prebiotic synthesis as origin of proteinous amino acids p0253 A79-45643
 Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-792 biosatellite p0311 N79-33796

BIOTECHNOLOGY
 Food and waste management biotechnology for the space shuttle [IAF PAPER 79-93] p0302 A79-53294

Biocompatible materials, volume 2. A bibliography with abstracts [NTIS/PS-78/0675/5] p0019 N79-10736
 Translations on USSR science and technology: Biomedical and behavioral sciences, no. 60 [JPRS-73135] p0175 N79-21745
 Liquid crystal developments for medicine p0175 N79-21746
 Emergence of biotechnology [TID-28983] p0211 N79-24626
 Analytical methods for biotechnological design of man machine systems: Work on system ergonomy [PB-28] p0242 N79-26787

BIOTELEMETRY
 In-vivo bone strain telemetry in monkeys /M. nemestrina/ p0002 A79-10608
 Measurement of skin temperatures of active subjects by wireless telemetry p0011 A79-12872
 Single frequency RF powered ECG telemetry system p0131 A79-26074
 The use of hybrid integrated circuit techniques in biotelemetry applications p0131 A79-26145
 Aerobiotelemetry from a fighter aircraft p0200 A79-37131
 Telemetry of intracranial pressure p0227 A79-41400
 An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424
 The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases p0256 A79-46600
 A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590] p0239 N79-26762

BIRD-AIRCRAFT COLLISIONS
 Application of biodynamic models to the analysis of F-16 canopy birdstrike p0285 N79-31911

BIRDS
 NT CHICKENS

BIRTH
 Equipment for surgical interventions and childbirth in weightlessness [IAF PAPER 79-97] p0302 A79-53296

BLACKOUT (PHYSIOLOGY)
 Incapacitation time for +Gz-induced loss of consciousness p0102 A79-23475
 Paroxysmal disorders of consciousness due to flight factors p0161 A79-29300
 Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714

BLACKOUT (PROPAGATION)
 NT ATMOSPHERICS

BLADDER
 A microangiographic study of the effect of hyperthermia on the rabbit bladder p0018 N79-10732
 Prosthetic urinary sphincter [NASA-CASE-MPS-23717-1] p0077 N79-14756
 Spine immobilization method and apparatus --- rigid bladder [NASA-CASE-ARC-11167-1] p0279 N79-30921

BLEACHING
 Evidence for the equivalent-background hypothesis in cones --- for dark adaptation thresholds p0232 A79-42233

BLEED-OFF
 U PRESSURE REDUCTION

BLINDNESS
 NT FLASH BLINDNESS
 Role of the visual system in the compensation of vestibular dysfunction p0162 A79-29971

BLOOD
 NT ERYTHROCYTES
 NT LYMPHOCYTES
 NT WHITE BLOOD CELLS
 Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics

- Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits p0133 A79-27105
- The effect of hyperoxia on the oxygen tension of blood and cerebral tissue p0134 A79-27120
- Some forms of adaptation to extreme influences in the blood system p0208 A79-38146
- Dynamics of the catalase activity of the blood of athletes under the influence of local decompression p0256 A79-46679
- Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- Changes in blood sugar content of dogs exposed to chronic gamma radiation for six years p0014 N79-10706
- Effects of laser radiation on morphology of peripheral blood and bone marrow under experimental and clinical conditions p0071 N79-14710
- Dynamics of Cosmonauts' blood biochemistry during space missions p0072 N79-14717
- Blood lipid changes in hypoxic rats p0074 N79-14731
- Gas diffusion liquid storage bag and method of use for storing blood [NASA-CASE-NPO-13930-1] p0076 N79-14749
- Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol [AD-A059412] p0084 N79-15577
- Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5 p0107 N79-16515
- Effects of methylprednisolone sodium succinate on clearance of living E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
- Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133] p0189 N79-22755
- Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation p0239 N79-26765
- Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station p0244 N79-27820
- Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- BLOOD CIRCULATION**
- NT BRAIN CIRCULATION
- NT CORONARY CIRCULATION
- NT INTRAVASCULAR SYSTEM
- NT ISCHEMIA
- NT PERIPHERAL CIRCULATION
- NT PULMONARY CIRCULATION
- Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
- Analysis of Pco₂ differences during rebreathing due to slow pH equilibration in blood p0067 A79-18958
- Cardiac and vascular components of the systemic response of blood circulation to orthostatic influence p0097 A79-20651
- Regional blood supply under hypoxic hypoxia p0097 A79-20652
- Interaction between hypothalamic and bulbar levels of regulating blood circulation p0098 A79-21242
- Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography p0098 A79-21243
- Self-regulation of cerebral circulation under orthostatic influences p0221 A79-36098
- The response of the microvascular canal to a hypoxic helium-containing medium p0208 A79-38151
- Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- The role of lesser circulation hemodynamic changes in pulmonary gas exchange p0300 A79-53066
- Bio-heat transfer processes, for human thermoregulatory and circulatory characteristics measurements p0304 A79-53536
- Noninvasive ultrasonic blood flow characterization p0017 N79-10726
- Changes in human renal function in passive head-up and head-down positions p0072 N79-14722
- The influence of mechanical vibration and noise on the peripheral blood circulation at skin level [RAE-LIB-TRANS-1980] p0084 N79-15578
- A study of cerebral blood flow in the goat. A. Correlations between the ventilatory and cerebrovascular responses to carbon monoxide inhalation. B. The dynamics of the cerebral blood flow response to hypoxia by frequency response analysis p0107 N79-16510
- Noninvasive techniques in the evaluation of the peripheral circulation p0154 N79-19675
- A long term model of circulation --- human body [NASA-CR-147674] p0212 N79-24636
- Effect of hyperbaric oxygen on peripheral blood neutrophil metabolism p0245 N79-27830
- Evaluation of circulatory reactions in the head to antorthostatic position p0245 N79-27832
- Physiological fluid dynamics [VKT-LECTURE-SERIES-32] p0247 N79-27843
- Mechanics of arterial blood flow p0247 N79-27846
- Mechanics of the microcirculation p0247 N79-27847
- Techniques of measurement p0247 N79-27850
- BLOOD COAGULATION**
- Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen p0164 A79-30655
- State of blood clotting during prolonged hypokinesia p0073 N79-14729
- Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits p0108 N79-16523
- The effects of brain ischemia on the control of breathing in unanesthetized goats p0190 N79-23624
- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia p0194 N79-23644
- Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia p0313 N79-33813
- BLOOD FLOW**
- Aggregation of red cells and blood viscosity as models of materials experimentation in the space environment [AIAA PAPER 79-0310] p0069 A79-19664
- Hemodynamics in teenagers and asthmatic children during exercise p0133 A79-27102
- Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures p0135 A79-27557
- A fluid-mechanical study of the closure of heart valves p0161 A79-29540
- Control of skin blood flow during exercise - Thermal and nonthermal factors p0185 A79-33807
- Specific problems in cardiovascular fluid dynamics measurements

- p0210 A79-39506
- Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers** p0210 A79-39509
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man** p0235 A79-43208
- A catheter flow probe for measurement of left ventricular source parameters** p0274 A79-50108
- Clinical usefulness of radiopaque markers in left ventricular function** p0293 A79-51029
- Cardiac blood flow measurement - A component of the comprehensive cardiac examination** p0295 A79-51041
- Quantitative flow estimation with transcutaneous Doppler ultrasound** p0295 A79-51042
- Application of an isolated heart model to investigate blood-oxygen delivery** p0296 A79-51112
- Noninvasive ultrasonic blood flow characterization** p0017 N79-10726
- A directional pulsed-Doppler ultrasonic blood flowmeter** p0050 N79-12693
- Noninvasive assessment of pulmonary hypertension [PB-285121/0]** p0057 N79-13701
- Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils** p0074 N79-14732
- Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia** p0074 N79-14733
- The effect of hyperoxia on cerebral blood flow in the unanesthetized pony** p0107 N79-16511
- A transient analysis of the cerebrovascular response to carbon dioxide** p0111 N79-16539
- Noninvasive techniques in the evaluation of the peripheral circulation** p0154 N79-19675
- Mechanics of blood flow through normal and stenotic coronary arteries** p0154 N79-19676
- Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat** p0169 N79-20712
- Aortic blood flow velocity during exercise in man** p0216 N79-25710
- Physiological fluid dynamics [VKI-LECTURE-SERIES-32]** p0247 N79-27843
- Mechanics of arterial blood flow** p0247 N79-27846
- Mechanics of the microcirculation** p0247 N79-27847
- Techniques of measurement** p0247 N79-27850
- Ultrasonic doppler directional blood flow velocity meter [RAE-LIB-TRANS-1918]** p0279 N79-30920
- Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes** p0307 N79-32825
- BLOOD PLASMA**
- Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions** p0161 A79-29336
- Plasma electrolytes in relation to altitude tolerance in rats** p0163 A79-30652
- Hyperthermia and exercise --- plasma fluid and electrolyte effects on human thermoregulation** p0252 A79-44775
- The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man** p0267 A79-47398
- Studies on the bioassayable growth hormone-like activity of plasma** p0267 A79-47848
- Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects**
- p0297 A79-52023
- Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma**
- p0017 N79-10721
- Comparison of plasma and urinary steroids in men with type A and type B behavior patterns** p0028 N79-11704
- Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia** p0193 N79-23636
- Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite** p0311 N79-33795
- Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids)** p0311 N79-33798
- BLOOD PRESSURE**
- NT DIASTOLIC PRESSURE**
- NT HYPERTENSION**
- Systolic time intervals during combined hand cooling and head-up tilt** p0135 A79-27554
- Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures** p0135 A79-27557
- Blood pressure variability of the individual in orthostatic testing** p0265 A79-47328
- A catheter flow probe for measurement of left ventricular source parameters** p0274 A79-50108
- Noninvasive cardiovascular measurements --- Book** p0293 A79-51026
- A study of noninvasive blood pressure measurement techniques** p0294 A79-51036
- Analyses for noninvasive monitoring of arterial blood pressure by /I/ phono cuff-sphygmomanometry, for discrete measurements and /II/ arterial ultrasonic imaging, for continuous measurements** p0294 A79-51037
- A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles** p0294 A79-51038
- Cardiac blood flow measurement - A component of the comprehensive cardiac examination** p0295 A79-51041
- Beta-adrenoceptor antagonists: Central effects** p0027 N79-11702
- Clinical comparisons of pressure pulse and indicator dilution methods of determining cardiac output** p0050 N79-12690
- Noninvasive assessment of pulmonary hypertension using bubble ultrasonic ringing (BURP) method, part 2 [PB-283935/5]** p0051 N79-12699
- A study of some of the factors influencing the left ventricular diastolic pressure-volume relationship and myocardial metabolism** p0154 N79-19674
- Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals** p0169 N79-20713
- Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles** p0286 N79-31917
- BLOOD PUMPS**
- Physical testing of polymers use in circulatory assist devices [PB-286129/2]** p0084 N79-15579
- Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4]** p0241 N79-26780
- BLOOD VESSELS**
- NT AORTA**
- NT ARTERIES**
- NT CAPILLARIES (ANATOMY)**
- NT VEINS**

- Influences of physical conditioning and deconditioning on coronary vasculature of dogs p0067 A79-18955
- The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/ p0208 A79-38150
- Iodine imaging using spectral analysis --- radiography for visualization of small blood vessels p0294 A79-51034
- Quantitative flow estimation with transcutaneous Doppler ultrasound p0295 A79-51042
- Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles p0286 N79-31917
- BLOOD VOLUME**
- Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
- Pulmonary blood volume and interventricular circulation time in physically trained and untrained subjects p0128 A79-24700
- Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions p0161 A79-29336
- Effects of regional hemoconcentration during LBNP on plasma volume determinations --- Lower Body Negative Pressure p0265 A79-47326
- Investigation of blood subjected to volume tension p0275 A79-50261
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAP PAPER 79-77] p0301 A79-53286
- BLUE GREEN ALGAE**
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- Distribution of bluegreen algae in a Mississippi Gulf Coast salt marsh [PB-288982/2] p0153 N79-19667
- Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
- BMC**
- O BONE MINERAL CONTENT**
- BOATS**
- Human factors analysis of visual distress signaling devices --- used by boaters [AD-A064174] p0190 N79-22765
- BODIES OF REVOLUTION**
- Electromagnetic fields and power deposition in body-of-revolution models of man p0130 A79-26007
- BODY FLUIDS**
- NT BLOOD
- NT CEREBROSPINAL FLUID
- NT ENDOLYMPH
- NT ERYTHROCYTES
- NT LYMPH
- NT LYMPHOCYTES
- NT SWEAT
- NT URINE
- NT WHITE BLOOD CELLS
- A review of the consequences of fluid and electrolyte shifts in weightlessness [IAP PAPER 78-50] p0002 A79-11220
- Fluid shifts during initial phase of immersion diuresis in man p0185 A79-33804
- Evidence for increased intrathoracic fluid volume in man at high altitude p0305 A79-54266
- Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
- Correction of transcapillary exchange in man under the influence of rotation on a centrifuge while immersed in water p0110 N79-16533
- Specialized physiological studies in support of manned space flight [NASA-CR-151876] p0111 N79-16542
- Application of numerical methods to physiological flows --- Navier-Stokes equation, prosthetic heart valves and vasoconstriction p0146 N79-18945
- Fluid and Electrolyte Balance model (PEB) [NASA-CR-160206] p0211 N79-24633
- Chemicals identified in human biological media, a pilot literature survey [PB-290690/7] p0214 N79-24649
- Fluid and electrolyte control systems in the human body: A study report [NASA-CR-160210] p0217 N79-25723
- On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
- Study report on modification of the long term circulatory model for the simulation of bed rest [NASA-CR-160186] p0218 N79-25727
- Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- Physiological fluid dynamics [VKI-LECTURE-SERIES-32] p0247 N79-27843
- Techniques of measurement p0247 N79-27850
- Composition of cerebral fluids in goats adapted to high altitude [AD-A070142] p0310 N79-33788
- Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792
- BODY KINEMATICS**
- Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements [ASME PAPER 78-WA/BIO-5] p0069 A79-19759
- Goal-directed mechanics of controlled manipulators --- Russian book p0275 A79-50447
- Whole body response research program [PB-286151/6] p0093 N79-15640
- Whole body response research program. Appendix A: Methodology [PB-286152/4] p0094 N79-15641
- Whole body response research program. Appendix B: Raw data [PB-286153/2] p0094 N79-15642
- Whole body response research program. Appendix C: Processed data [PB-286154/0] p0094 N79-15643
- Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006] p0157 N79-19690
- Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903
- Simulation of head and neck response to -G sub x and +G sub z impacts p0285 N79-31908
- A three-dimensional mathematical analogue of the spine structure: A comprehensive approach p0285 N79-31909
- A three dimensional discrete element dynamic model of the spine, head and torso p0285 N79-31910
- A human body and crew station modelling system for motion studies p0287 N79-31922
- BODY MEASUREMENT (BIOLOGY)**
- NT ANTHROPOMETRY
- NT ELECTROPLETHYSMOGRAPHY
- Electromagnetic absorption in a multilayered model of man p0226 A79-40650
- Arm-leg reach and workspace layout p0033 N79-11739
- Anthropometric source book. Volume 2: A handbook of anthropometric data [NASA-RP-1024-VOL-2] p0058 N79-13711
- Anthropometric source book. Volume 3: Annotated bibliography of anthropometry [NASA-RP-1024-VOL-3] p0058 N79-13712
- Hybridization of biomedical circuitry [NASA-CR-151874] p0111 N79-16543
- Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] p0144 N79-18580

SUBJECT INDEX

BORESCOPES

- Analysis of body form using biostereometrics
[NASA-CR-160173] p0195 N79-23654
- United States Army anthropometry: 1946-1977
[AD-A068095] p0289 N79-31938
- Analysis of body size measurements for US Navy
women's clothing and pattern design
[AD-A068600] p0290 N79-31939
- BODY SIZE (BIOLOGY)**
- Anthropometry in sizing and design p0033 N79-11742
- BODY SWAY TEST**
- Hemodynamics in teenagers and asthmatic children
during exercise p0133 A79-27102
- BODY TEMPERATURE**
- Comparison of circadian rhythms in male and female
humans p0004 A79-11947
- Core temperature measurement in man p0010 A79-12862
- Heat transfer and temperature distribution in the
human body p0041 A79-13612
- Thresholds for Na⁺ and Ca⁺⁺ effects on
thermoregulation p0045 A79-14774
- Regulation and efficiency of sweating in man
/Mathematical modeling/ p0097 A79-20622
- Temperature effect of muscular work in the white
rat during hypoxia p0097 A79-20654
- The effects of different levels of heat production
induced by diathermy and eccentric work on
thermoregulation during exercise at a given skin
temperature p0128 A79-24698
- The local and time-dependent temperature field in
the body of a homeothermic organism in case of
sudden changes of quantity and local
distribution of internal heat production p0128 A79-24699
- Model of human heat exchange and identification of
its parameters Physiological studies and
mathematical modeling p0159 A79-28739
- Discrimination, temperature, and time of day ---
human performance variances p0161 A79-29718
- Studies on thermoregulation in the rat p0162 A79-30019
- Physical performance and peak aerobic power at
different body temperatures p0221 A79-36046
- Characteristics of EEG changes in rabbits in
response to local cooling or heating of the
central thermosensory area p0221 A79-36097
- Effect of induced cyclic changes of deep body
temperature on task performances p0202 A79-37708
- Regional heat loss in resting man during immersion
in 25.2 C water p0202 A79-37709
- An inductively powered telemetry system for
temperature, EKG, and activity monitoring p0228 A79-41424
- Separation of the effects of raised skin and core
temperature on performance of a pursuit rotor task p0234 A79-43204
- Prediction of body temperatures during exercise in
flying clothing p0273 A79-49989
- Effect on performance of cycling deep body
temperature between 37.0 and 37.6 C p0274 A79-49993
- Bio-heat transfer processes, for human
thermoregulatory and circulatory characteristics
measurements p0304 A79-53536
- Microwave thermography: Physical principles and
diagnostic applications p0083 N79-15567
- Effect on mice of microwaves in the non-thermal
intensity region. Respiration, rectal
temperature and mental reaction
[FOA-C-54021-H2(H6)] p0120 N79-17523
- Crawford and Lavoisier on the method of
development and place of formation of body heat
- [BLL-RTS-11228] p0142 N79-18568
- The effects of dehydration on peripheral cooling
[AD-A065332] p0220 N79-25745
- The human micro-environment p0248 N79-27851
- Hypothermia. A bibliography with abstracts
[NTIS/PS-79/0533/4] p0308 N79-32830
- BODY TEMPERATURE REGULATION**
- U THERMOREGULATION**
- BODY WEIGHT**
- Weight control and restraint of laboratory rats
p0133 A79-26584
- Obesity and flying fitness p0182 A79-33188
- BOEING AIRCRAFT**
- NT C-135 AIRCRAFT
- BOEING MILITARY AIRCRAFT**
- U MILITARY AIRCRAFT
- BOGS**
- U MARSHLANDS
- BONE DEMINERALIZATION**
- In-vivo bone strain telemetry in monkeys /M.
nemestrina/ p0002 A79-10608
- Prolonged weightlessness and calcium loss in man
[IAF PAPER 78-48] p0002 A79-11219
- Space osteoporosis - An electromagnetic hypothesis
p0165 A79-30666
- Spaceflight and bone turnover - Correlation with a
new rat model of weightlessness p0182 A79-33049
- Kinetic measurements of bone mineral metabolism:
The use of Na-22 as a tracer for long-term bone
mineral turnover studies [NASA-CR-151868] p0111 N79-16544
- The influence of exercise on bone atrophy
[NASA-CR-160196] p0216 N79-25714
- A brief review of space flight calcium metabolism:
Results and methodologies [NASA-CR-160198] p0217 N79-25715
- BONE MARROW**
- Effects of laser radiation on morphology of
peripheral blood and bone marrow under
experimental and clinical conditions p0071 N79-14710
- BONE MINERAL CONTENT**
- Spaceflight and bone turnover - Correlation with a
new rat model of weightlessness p0182 A79-33049
- The use of Na-22 as a tracer for long-term bone
mineral turnover studies. p0265 A79-47327
- Changes in properties of rat femur as a result of
crural exarticulation and hypokinesia p0108 N79-16522
- BONES**
- NT CARTILAGE
- NT CEREBRUM
- NT FEMUR
- NT TIBIA
- NT VERTEBRAE
- Passive resistive torques about long bone axes of
major human joints p0298 A79-52283
- Histological studies on tibial bone of rats in the
1975 COSMOS-782 flight. Part 1: Endochondral
osteogenesis; medullary bone turnover p0022 N79-11665
- Histological studies on tibial bone of rats in the
1975 COSMOS-782 flight. Part 2:
Microradiographic study of cortical bone p0022 N79-11666
- Quantitative analysis of selected bone parameters
p0022 N79-11668
- Quantitative analysis of selected bone parameters
p0023 N79-11676
- Preliminary design specifications of a calcium model
[NASA-CR-160199] p0217 N79-25716
- BOOST**
- U ACCELERATION (PHYSICS)
- BOOTS (FOOTWEAR)**
- Insulated firefighters' crash-crew rescue boots
and components: Field and laboratory evaluation
[AD-A068264] p0262 N79-29795
- BORES**
- U CAVITIES
- BORESCOPES**
- U ENDOSCOPES

BOSOMS	
NT LIGHT BEAMS	
BOUNDARY VALUE PROBLEMS	
The application of MINIQUASI to thermal program boundary and initial value problems [NASA-CR-160227]	p0222 N79-25759
BOW SHOCK WAVES	
U SHOCK WAVES	
BRADYCARDIA	
Tolerance of domestic fowl to high sustained +Gz	p0127 A79-24630
BRAIN	
NT CEREBRAL CORTEX	
NT CEREBRUM	
NT HIPPOCAMPUS	
The relationship between classical centers of the auditory tract and certain 'nonspecific' brain structures in the organization of the auditory function in animals	p0043 A79-14370
Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation	p0159 A79-28735
The inhibitory trace effect as a manifestation of the integrative activity of the human brain in performing voluntary motor acts	p0159 A79-28737
Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain	p0162 A79-29925
Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats	p0275 A79-50232
Elicited acoustic responses to meaningful and meaningless verbal stimuli	p0276 A79-50654
The effect of normobaric hyperoxia on brain and liver tissue respiration in albino rats with different resistances to hypoxia	p0296 A79-51113
Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite	p0299 A79-52475
Effects of microwaves on catecholamine metabolism in the brain	p0075 N79-14739
Possible mechanisms of weak electromagnetic field coupling in brain tissue	p0082 N79-15555
Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction	p0108 N79-16521
Effects of filtering electroencephalic signals on auditory evoked brain stem responses	p0176 N79-21758
The effects of brain ischemia on the control of breathing in unanesthetized goats	p0190 N79-23624
Dose-effect relationships for ultrasound irradiation of brain tissue	p0242 N79-27812
The effect of impact acceleration on the electrical activity of the brain	p0287 N79-31921
Composition of cerebral fluids in goats adapted to high altitude [AD-A070142]	p0310 N79-33788
Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations	p0312 N79-33800
Methods for localization of electrical sources in the human brain and applications to the visual system	p0314 N79-33815
BRAIN CIRCULATION	
Cerebral gas exchange in rats adapted to hypoxia during inspiration of oxygen-poor mixtures	p0097 A79-20623
Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit	p0101 A79-23075
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting	p0127 A79-24634
Diagnostics of initial deficiency in cerebral circulation	
	p0166 A79-31164
Self-regulation of cerebral circulation under orthostatic influences	
	p0221 A79-36098
Cerebral hemodynamics and visual analyzer function following exposure to bright light	
	p0109 N79-16525
BRAIN DAMAGE	
Ruptured arteriovenous anomaly in a former woman astronaut candidate	p0128 A79-24640
Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves	p0188 A79-35917
Aircrew helmet protection against potential cerebral concussion in low-magnitude impacts	p0201 A79-37705
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study	p0252 A79-44798
Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia	p0074 N79-14733
The child in coma	p0094 N79-15890
Coma recovery	p0094 N79-15891
The control and prevention of seizures in children, a developmental and environmental approach	p0094 N79-15892
Vision	p0095 N79-15894
BRAZIL	
The application of remote sensors to a model for fish mapping [INPE-1379-PE/176]	p0071 N79-14712
BREATHING	
Distribution of pulmonary ventilation and perfusion during short periods of weightlessness	p0068 A79-18967
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen	p0164 A79-30655
Contribution of rib cage and abdomen-diaphragm to tidal volume during CO ₂ rebreathing	p0185 A79-33805
Positive pressure breathing as a protective technique in +Gz acceleration	p0201 A79-37132
Distribution of regional volumes and ventilation in excised canine lobes	p0236 A79-43703
Influence of exercise and CO ₂ on breathing pattern of normal man	p0237 A79-43704
Gas exchange under environmental stress [AD-A058242]	p0056 N79-13697
BREATHING APPARATUS	
NT OXYGEN MASKS	
The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use	p0184 A79-33638
The dynamic oxygen-regulator test stand [AD-A060978]	p0125 N79-17560
BRIGHTNESS	
Cerebral hemodynamics and visual analyzer function following exposure to bright light	p0109 N79-16525
BRIGHTNESS DISCRIMINATION	
Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-H9]	p0124 N79-17556
BROADBAND	
An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals --- Specific Absorption Rate	p0278 A79-51015
BRONCHI	
Modeling the effect of axial bronchial tension on	

- expiratory flow p0067 A79-18957
- BRONCHIAL TUBE
NT TRACHEA
- BUBBLES
Detection of bubbles in decompression sickness p0041 A79-13573
Application of a bubble formation model to decompression sickness in rats and humans p0102 A79-23473
Scanning and transmission electron microscopy of the blood-bubble interface in decompressed rats p0266 A79-47333
Effects of endogenous factors on the process of gas bubble formation in the body related to decompression p0015 N79-10713
Hyperbaric decompression by means of bubble detection [AD-A062441] p0171 N79-20726
- BUILDING STRUCTURES
U BUILDINGS
BUILDINGS
Establishing habitability factors for the design of office environments [AD-A056463] p0020 N79-10744
Human responses to fire: Three designs for research [PB-284959/4] p0058 N79-13708
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/8] N79-25750
- BURNS (INJURIES)
Thermal conduction effects in human skin p0265 A79-47329
Assessment of burns in accident fatalities p0272 A79-49729
Effect of fiber and dye degradation products /FDP/ on burn wound healing p0298 A79-52277
A porcine bioassay study of the physiological effects of fiber and dye degradation products (FDP) on burn wound healing [AD-A066990] N79-25748
Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946] p0223 N79-25766
Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis [NASA-CR-162103] p0279 N79-30922
- BY-PRODUCTS
Decreased activity of palladium catalyst during processing of excreta p0016 N79-10716
- C**
- C-135 AIRCRAFT
Visual system for the Boom Operator Part Task Trainer --- KC-135 aerial refueling task simulator p0137 A79-28162
- C-141 AIRCRAFT
Study of crew task loading on the C-141A aircraft [AD-A057346] p0034 N79-11746
- CABIN ATMOSPHERES
NT SPACECRAFT CABIN ATMOSPHERES
Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India p0201 A79-37135
Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
- CADMIUM
The distribution of cadmium and other metals in human tissues [PB-285200/2] p0057 N79-13703
- CAI
U COMPUTER ASSISTED INSTRUCTION
- CALCIFICATION
Coronary calcification in the diagnosis of coronary artery disease p0226 A79-40465
- CALCIUM
Thresholds for Na⁺/ and Ca⁺⁺/ effects on thermoregulation p0045 A79-14774
Effects of magnesium, calcium, and serum on reversion of stable L-forms --- of soil bacterium
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man p0163 A79-30624
Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666
Calcium regulation in smooth muscle: Isolation and characterization of the myosin light chain kinase p0024 N79-11680
A correlation of the effects of cationic uncouplers on intact cardiac muscle and on calcium bound to isolated cardiac muscle plasma membranes p0111 N79-16540
Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
Study report on a double isotope method of calcium absorption [NASA-CR-160194] p0216 N79-25712
Preliminary design specifications of a calcium model [NASA-CR-160199] p0217 N79-25716
- CALCIUM METABOLISM
Prolonged weightlessness and calcium loss in man [IAP PAPER 78-48] p0002 A79-11219
A brief review of space flight calcium metabolism: Results and methodologies [NASA-CR-160198] p0217 N79-25715
- CALIBRATING
Calibration of three year old child dummies [PB-288961/6] p0157 N79-19692
- CALIFORNIA
Biomedical application in space, pilot program in the southern California region [NASA-CR-160171] p0195 N79-23653
Energy supply and demand in California p0242 N79-27603
- CALORIC REQUIREMENTS
Caloric and exercise requirements of space flight - Biostereometric results from Skylab p0128 A79-24637
- CALORIC STIMULI
A study of the effects of six light conditions on caloric induced nystagmus p0195 N79-23652
Effect of restricted activity on vestibular function p0312 N79-33802
- CAMERAS
NT TELEVISION CAMERAS
CANADA
The Canadian Forces Life Quality Improvement Programme p0026 N79-11693
- CANADAIR CP-104 AIRCRAFT
U F-104 AIRCRAFT
- CANCER
Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051] p0017 N79-10728
Hyperthermia in the treatment of cancer: A review of the radiobiological basis p0017 N79-10729
The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (EMR) p0018 N79-10733
Coupling apparatus for ultrasonic medical diagnostic system [NASA-CASE-NPO-13935-1] p0077 N79-14751
The lymph nodes and lymph vessels of the white rat [BLL-RTS-11309] p0141 N79-18554
Isolation of virus-augmented tumor antigens p0142 N79-18564
The dangerous relation between sunburn and skin cancer [BLL-RTS-11310] p0142 N79-18573
A wide aperture focussed ultrasound system for detection of breast carcinoma by ultrasonic attenuation p0142 N79-18577
Study of pharmaceutical industrial problems [NASA-CR-160267] p0248 N79-27852
- CANOPIES
Biodynamic effects of canopy loss in the TF-15 aircraft p0163 A79-30651

- Internal cockpit reflections of external point light sources for the model YAH-64 advanced attack helicopter
[AD-A056489] p0033 N79-11744
- CAPILLARIES (ANATOMY)**
- Capillary fragility during air exposure of man to 1-5 ATA and after decompression p0010 A79-12863
- Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat p0169 N79-20712
- CAPILLARY CIRCULATION**
- U CAPILLARY FLOW
- CAPILLARY FLOW**
- Correction of transcapillary exchange in man under the influence of rotation on a centrifuge while immersed in water p0110 N79-16533
- Mechanics of the microcirculation p0247 N79-27847
- CARBOHYDRATE METABOLISM**
- The effect of plasmoidal slime on the metabolism of haploid cells of *Physarum flavicomum* and the respiration of isolated mitochondria p0105 A79-24513
- Energetic aspects of adaptation --- Russian book on metabolic responses to stress p0167 A79-31906
- Glucose metabolism in rat lung during exposure to hyperbaric O₂ p0221 A79-36047
- Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C14-U-glucose in diabetic rats p0252 A79-44797
- COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- Carbohydrate metabolism of the stimulated diaphragm muscle p0050 N79-12689
- Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
- Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- CARBOHYDRATES**
- NT ADENOSINES
- NT FATS
- NT GLUCOSE
- NT GLYCOGENS
- NT HEXOSES
- NT INOSITOLS
- NT NUCLEOSIDES
- NT POLYSACCHARIDES
- Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue --- COSMOS 782 p0020 N79-11653
- CARBON**
- NT ACTIVATED CARBON
- NT CARBON 14
- Photosynthetic carbon reduction by seagrasses exposed to ultraviolet B radiation [NASA-CR-160144] p0175 N79-21742
- CARBON COMPOUNDS**
- NT FLUOROPOLYMERS
- Prebiotic molecular evolution p0203 A79-37928
- Physical testing of polymers use in circulatory assist devices [PB-286129/2.] p0084 N79-15579
- CARBON DIOXIDE**
- CO₂ and exercise tidal volume p0133 A79-27104
- Contribution of rib cage and abdomen-diaphragm to tidal volume during CO₂ rebreathing p0185 A79-33805
- Influence of exercise and CO₂ on breathing pattern of normal man p0237 A79-43704
- Gas exchange under environmental stress [AD-A058242] p0056 N79-13697
- A transient analysis of the cerebrovascular response to carbon dioxide p0111 N79-16539
- Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals p0169 N79-20713
- The growth kinetics of freshwater algae p0174 N79-21740
- Computer program for calculation of oxygen uptake [NASA-TM-78585] p0174 N79-21741
- Metabolic rate meter and method [NASA-CASE-MSC-12239-1] p0175 N79-21750
- Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon dioxide production during fever and its relationship with heat production [NASA-TM-75452] p0211 N79-24632
- Flight prototype CO₂ and humidity control system [NASA-CR-160224] p0222 N79-25760
- CARBON DIOXIDE CONCENTRATION**
- Responses of conscious rabbits to CO₂ at ambient temperatures of 5, 20, and 35 C p0277 A79-50904
- CARBON DIOXIDE REMOVAL**
- The dependence of the CO₂ removal efficiency of LiOH on humidity and mesh size --- in spacecraft life support systems [ASME PAPER 78-ENAS-5] p0006 A79-12554
- Electrochemically regenerable carbon dioxide absorber [NASA-CR-152099] p0262 N79-29794
- CARBON DIOXIDE TENSION**
- NT HYPERCAPNIA
- NT HYPOCAPNIA
- Analysis of PCO₂ differences during rebreathing due to slow pH equilibration in blood p0067 A79-18958
- Mechanics of the regulation of the respiratory system in man p0160 A79-29258
- CARBON ISOTOPES**
- NT CARBON 14
- CARBON MONOXIDE**
- Synthesis of organic compounds from carbon monoxide and water by UV photolysis p0099 A79-22077
- The effects of carbon monoxide on dual-task performance p0161 A79-29716
- The effects of carbon monoxide and cyanide on the brain p0024 N79-11682
- The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212] p0056 N79-13694
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 51 [JPRS-72588] p0076 N79-14745
- Liberation of carbon monoxide by man when working in protective gear p0076 N79-14748
- A study of cerebral blood flow in the goat. A. Correlations between the ventilatory and cerebrovascular responses to carbon monoxide inhalation. B. The dynamics of the cerebral blood flow response to hypoxia by frequency response analysis p0107 N79-16510
- Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
- CARBON MONOXIDE POISONING**
- Developmental and hematological responses to low level exposure of carbon monoxide in mice p0048 A79-16099
- Carbon monoxide and human time discrimination - Failure to replicate Beard-Wertheim experiments p0102 A79-23472
- Characteristics of serious carbon monoxide poisoning p0167 A79-32100
- The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- CARBON SUBOXIDES**
- Carbon suboxide and the genetic code --- in biochemical evolution

- CARBON 14**
- Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C/14-U-glucose in diabetic rats p0252 A79-44865
- CARBOXYLATION**
- Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere p0252 A79-44797
 - p0203 A79-37937
- CARBOXYLIC ACIDS**
- NT ACETIC ACID
 - NT TRYPTOPHAN
- CARCINOGENS**
- Evaluation of toxic effects of organic contaminants in recycled water [PB-291379/6] p0190 N79-22760
- CARCINOMA**
- U CANCER
- CARDIAC VENTRICLES**
- Microwave apexcardiography p0231 A79-41848
 - Effects of endurance training on left ventricular dimensions in healthy men p0237 A79-43706
 - A catheter flow probe for measurement of left ventricular source parameters p0274 A79-50108
 - Clinical usefulness of radiopaque markers in left ventricular function p0293 A79-51029
 - Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
 - Contour detector and data acquisition system for the left ventricular outline [NASA-CASE-ARC-10985-1] p0017 N79-10724
 - Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749] p0190 N79-22758
 - Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart p0239 N79-26766
 - Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart p0239 N79-26767
 - Characterization of cardiovascular function by automated monitoring of cardiac contractility and left ventricular wall motion activity p0247 N79-27842
- CARDIOGRAPHY**
- NT ECHOCARDIOGRAPHY
 - NT ELECTROCARDIOGRAPHY
 - NT MAGNETOCARDIOGRAPHY
 - NT PHONOCARDIOGRAPHY
 - PT SEISMOCARDIOGRAPHY
 - NT VECTORCARDIOGRAPHY
 - A tethering system for direct measurement of cardiovascular function in the caged baboon p0200 A79-36576
 - Predictive accuracy of Q-X/Q-T ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing --- heart pathology p0225 A79-40464
 - Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- CARDIOLOGY**
- Cardiac response to whole-body heating p0165 A79-30661
 - Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
 - Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
 - Coronary calcification in the diagnosis of coronary artery disease p0226 A79-40465
 - Modification of cardiac function by synchronized oscillating acceleration p0278 A79-50908
 - Noninvasive cardiovascular measurements --- Book p0293 A79-51026
 - Computer quantitation of angiographic images p0293 A79-51028
- Computer quantitation of coronary angiograms p0293 A79-51030
- Clinical applications of new echocardiographic techniques p0295 A79-51040
- Biomagnetic instrumentation and measurement p0295 A79-51043
- Clinical magnetocardiography p0295 A79-51044
- Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- Possibilities and perspectives of tetrapolar transthoracic impedance rheophthalmography in noninvasive studies of hemo- and cardiodynamics p0296 A79-51118
- The metabolic demand and oxygen supply of the heart - Physiologic and clinical considerations p0300 A79-52894
- Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0029 N79-11714
- Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness p0030 N79-11721
- Normal and pathological cardiovascular findings in applicants to the Air Force service p0031 N79-11722
- Clinical comparisons of pressure pulse and indicator dilution methods of determining cardiac output p0050 N79-12690
- A correlation of the effects of cationic uncouplers on intact cardiac muscle and on calcium bound to isolated cardiac muscle plasma membranes p0111 N79-16540
- Technical evaluation report on the Aerospace Medical Panel London Specialists' Meeting, Fall 1977 --- disease prevention, flight fitness, and findings in cardiology and pulmonary function [AGARD-AB-131] p0171 N79-20729
- Specific findings in cardiology and pulmonary function with special emphasis on assessment criteria for flying p0171 N79-20731
- CARDIOVASCULAR SYSTEM**
- NT AORTA
 - NT ARTERIES
 - NT BLOOD VESSELS
 - NT CAPILLARIES (ANATOMY)
 - NT CARDIAC VENTRICLES
 - NT ERYTHROCYTES
 - NT HEART
 - NT HEMATOPOIESIS
 - NT HEMATOPOIETIC SYSTEM
 - NT LYMPHOCYTES
 - NT MYOCARDIUM
 - NT SYSTOLE
 - NT VEINS
 - Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test p0047 A79-15490
 - Cardiac and vascular components of the systemic response of blood circulation to orthostatic influence p0097 A79-20651
 - Interaction between hypothalamic and bulbar levels of regulating blood circulation p0098 A79-21242
 - Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
 - Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, *Gz, and fatigue tolerances p0127 A79-24628
 - Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting p0127 A79-24634
 - Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold p0128 A79-24636

- Age trends in the cardiovascular dynamics of aircrewmen p0136 N79-27560 [PB-284686/3] p0052 N79-12703
- Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads p0160 A79-29270 [PB-286696/0] p0085 N79-15581
- Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727 Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728 [p0147 N79-19022]
- Incidence of cardiovascular problems among flying personnel and their evaluation p0182 A79-33186 Noninvasive techniques in the evaluation of the peripheral circulation p0154 N79-19675
- Cardiac changes during behavioral stress in dogs p0200 A79-36575 Cardiac adaptation to endurance training: Determined by echocardiography and electrocardiography p0194 N79-23648
- Specific problems in cardiovascular fluid dynamics measurements p0210 A79-39506 The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans p0195 N79-23651
- Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713 Physiological system integrations with emphasis on the respiratory-cardiovascular system [NASA-CR-160230] p0213 N79-24643
- Isolation of a shock-induced circulating cardiodepressant substance p0257 A79-46967 User's instructions for the cardiovascular Walters model [NASA-CR-160204] p0217 N79-25721
- Noninvasive cardiovascular measurements --- Book p0293 A79-51026 User's instructions for the high speed version of the cardiovascular exercise model [NASA-CR-160211] p0218 N79-25724
- Current status of cardiovascular imaging by transmission computed tomography p0294 A79-51032 User's instructions for the GE cardiovascular model to simulate LBNP and tilt experiments, with graphic capabilities [NASA-CR-160216] p0219 N79-25732
- A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles p0294 A79-51038 Study report on guidelines and test procedures for investigating stability of nonlinear cardiovascular control system models [NASA-CR-160229] p0219 N79-25734
- Clinical applications of new echocardiographic techniques p0295 A79-51040 Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system p0245 N79-27831
- Cardiac blood flow measurement - A component of the comprehensive cardiac examination p0295 A79-51041 Characterization of cardiovascular function by automated monitoring of cardiac contractility and left ventricular wall motion activity p0247 N79-27842
- Time course of O₂-pulse during various tests of aerobic power p0297 A79-52024 Cardiovascular diseases, volume 3. A bibliography with abstracts [NTIS/PS-79/0063/2] p0260 N79-28874
- Theoretical foundations of cardiovascular processes --- Book p0304 A79-53531 Possibility of improving assessment of cardio-pulmonary function by submaximal exercise on a bicycle ergometer [BLR-RTS-11657] p0279 N79-30918
- Basic biomechanics equations for cardiovascular flow p0304 A79-53534 Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
- Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709 The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845
- Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill p0024 N79-11681 CARGO AIRCRAFT
- Experience with periodic aviation medical examinations p0026 N79-11696 NT C-135 AIRCRAFT
- Beta-adrenoceptor antagonists: Central effects p0027 N79-11702 NT C-141 AIRCRAFT
- Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0028 N79-11705 CAROTID SINUS REFLEX
- Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720 Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
- Evaluation of cardiac risk and subject response to ameliorative efforts p0031 N79-11723 CARTILAGE
- Cardiovascular diseases as a cause of unfitness for flying service in aircrews of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention p0031 N79-11725 The relationship between adult articular cartilage thickness and dynamic loads of a uniaxial joint p0154 N79-19671
- Cardiovascular fitness of pilots of transport aircraft p0031 N79-11726 CARTRIDGE ACTUATED DEVICES
- Cardiovascular studies of reducing and oxidizing agents p0049 N79-12682 U EXPLOSIVE DEVICES
- Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease p0049 N79-12682 CASCADERS (FLUID DYNAMICS)
- U FLUID DYNAMICS
- CASE HISTORIES
- Case report - Intracardial gas bubbles in relation to altitude decompression chokes p0011 A79-12871
- CATABOLISM
- Hemoglobinemia in rats exposed to high altitude is not due to an overload of catabolic mechanisms p0101 A79-23467

- CATALASE**
NT Dynamics of the catalase activity of the blood of athletes under the influence of local decompression p0271 A79-49699
- CATALYSIS**
NT AUTOCATALYSIS Four-man rated dual catalyst system for the recovery of water from urine [NASA-CR-152227] p0112 N79-16550
- CATALYTIC ACTIVITY**
A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution p0204 A79-37957
Decreased activity of palladium catalyst during processing of excreta p0016 N79-10716
- CATECHOLAMINE**
Sustained operations and sleep deprivation - Effects on indices of stress p0009 A79-12859
Effects of microwaves on catecholamine metabolism in the brain p0075 N79-14739
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- CATHODE RAY TUBES**
Visual acuity with regard to simultaneous colored contrast on a television screen - Results p0103 A79-23952
Providing an eye separator on a color cathode tube --- enhancing visual acuity p0152 N79-19639
- CATIONS**
NT METAL IONS A correlation of the effects of cationic uncouplers on intact cardiac muscle and on calcium bound to isolated cardiac muscle plasma membranes p0111 N79-16540
- CAVITATION**
U CAVITATION FLOW
CAVITATION FLOW Application of a bubble formation model to decompression sickness in rats and humans p0102 A79-23473
- CAVITIES** The design and construction of a miniature dosimeter for the study of the effects of air cavities in radiation therapy p0176 N79-21757
- CELESTIAL BODIES**
NT EARTH (PLANET)
NT MAIN SEQUENCE STARS
NT MARS (PLANET)
CELL DIVISION Effect of infra-low-frequency magnetic fields on cell division p0173 N79-20739
- CELLS (BIOLOGY)**
NT AXONS
NT CHROMOSOMES
NT COLLAGENS
NT ERYTHROCYTES
NT HEMATOPOIESIS
NT HEMOGLOBIN
NT LYMPHOCYTES
NT MACROPHAGES
NT MITOCHONDRIA
NT NEURONS
NT OXYHEMOGLOBIN Biomagnetism and artificial magnetic stimulation of living structures [IAF PAPER 78-52] p0002 A79-11222
Convective control of long-range coherence in plant growth regulation p0006 A79-12515
Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319
Biological effects of electromagnetic fields p0184 A79-33711
Cell mechanisms for the biological effects of electromagnetic fields p0188 A79-35569
Coacervate drops as a model for precellular structures p0204 A79-37960
Coacervate drops - Primitive forms of precells p0204 A79-37962
Possible contribution of transferable exogenous DNA in prokaryotic evolution p0205 A79-37971
Membranous evolution in the primitive cell p0206 A79-37977
Subcellular organisms and evolution of cell structure p0206 A79-37978
Norepinephrine action on smooth muscle cells of coronary arteries p0208 A79-38149
Preliminary results of Cyto experiment flows in Salyut VI - Investigations of Paramecium aurelia p0229 A79-41709
Enhancement of luminance flicker by color-opponent mechanisms p0252 A79-44582
Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
Design of polymeric immunomicrospheres for cell labelling and cell separation p0275 A79-50234
Attachment to autoclaved soil of bacterial cells from pure cultures of soil isolates p0297 A79-51701
Energy transduction in Halobacterium halobium p0300 A79-53000
System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1] p0013 N79-10694
Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma p0017 N79-10721
The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum p0018 N79-10731
The morphogenetic responses of cultured totipotent cells of carrot (*Daucus carota L.*) at zero gravity --- cosmos 782 p0021 N79-11657
Effect of space flight on cell-mediated immunity --- COSMOS 782 satellite p0021 N79-11661
Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-151853] p0051 N79-12697
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555
Interfacial and intracellular water: Expected anomalies in dielectric properties p0082 N79-15558
Wavelength dependence of ultraviolet-enhanced reactivation and induction of mammalian viruses [HEW-PUB-FDA-78-8059] p0084 N79-15575
The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells p0141 N79-18558
Raman spectroscopy of biological membranes and other biological systems p0141 N79-18559
Cell response to chronic irradiation-modeling and simulation studies p0142 N79-18562
A theoretical study of membrane diffusion and lymphocyte patching p0142 N79-18563

CENTRAL NERVOUS SYSTEM

SUBJECT INDEX

- Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes p0147 N79-19591
- Effect of infra-low-frequency magnetic fields on cell division p0173 N79-20739
- A method for separating biological cells [NASA-CASE-MPS-23883-1] p0175 N79-21743
- Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133] p0189 N79-22755
- Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation [AD-A063852] p0189 N79-22756
- Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-160242] p0219 N79-25736
- Preparation of guinea pig macrophage for electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814
- Biological effects of laser irradiation on nerve cells p0247 N79-27840
- Study of pharmaceutical industrial problems [NASA-CR-160267] p0248 N79-27852
- Cell biology basis for the life of an organism in the radiation field [ANL-TRANS-1152] p0261 N79-29786
- Studying the state of cellular metal ions by the extended X-ray absorption fine structure [AD-A069799] p0279 N79-30914
- Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
- CENTRAL NERVOUS SYSTEM**
- NT BRAIN
- NT CEREBRAL CORTEX
- NT CEREBRUM
- NT HIPPOCAMPUS
- NT SPINAL CORD
- NT SPINE
- How does the saccadic eye movement controller adapt for pathological states p0046 A79-14961
- Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour p0047 A79-15493
- A model for vestibular function in altered gravitational states p0229 A79-41710
- Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- The effects of carbon monoxide and cyanide on the brain p0024 N79-11682
- Potential relationship between human central nervous system injury and impact forces based on primate studies p0286 N79-31919
- CENTRIFUGAL FORCE**
- Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- Quantitative analysis of selected bone parameters p0023 N79-11676
- Investigations into the importance of the direction of centrifugal forces acting on the human body [RAE-LTR-TRANS-1945] p0077 N79-14758
- CENTRIFUGES**
- NT HUMAN CENTRIFUGES
- CENTRIFUGING**
- Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- CENTRIFUGING STRESS**
- Geotropism of hornet comb construction under persistent acceleration p0006 A79-12514
- Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
- Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight p0047 A79-15491
- Relaxed +Gz tolerance in healthy men - Effect of age p0067 A79-18956
- Incapacitation time for +Gz-induced loss of consciousness p0102 A79-23475
- RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
- Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
- Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
- Effect of microwave radiation on the resistance of rats to transverse acceleration loading p0275 A79-50496
- CENTRIPETAL FORCE**
- Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- CEPSTRAL ANALYSIS**
- Homomorphic analysis and modeling of ECG signals p0210 A79-39973
- CERAMAL PROTECTIVE COATINGS**
- U PROTECTIVE COATINGS
- CEREBRAL CORTEX**
- Lateral orientation and cerebral activation - Considerations for information display p0037 A79-13194
- The event related cortical potential as an index of task workload p0038 A79-13208
- Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems p0043 A79-14371
- Piecewise Fourier analysis of images and the role of occipital, temporal and parietal cortex in visual perception p0160 A79-29248
- Self-regulation of cerebral circulation under orthostatic influences p0221 A79-36098
- The effect of hyperoxia on the oxygen tension of blood and cerebral tissue p0208 A79-38146
- Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0266 A79-47331
- The visual cortex of normal and deprived monkeys p0296 A79-51174
- Tissular respiration of the brain after exposure of rats to hypoxic helium and oxygen mixtures at atmospheric and elevated pressure p0015 N79-10712
- The effect of hyperoxia on cerebral blood flow in the unanesthetized pony p0107 N79-16511
- A transient analysis of the cerebrovascular response to carbon dioxide p0111 N79-16539
- Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat p0169 N79-20712
- CEREBRAL VASCULAR ACCIDENTS**
- Cerebral accident subsequent to G-force loading - A case report p0165 A79-30664
- CEREBROSPINAL FLUID**
- Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0101 A79-23075
- Composition of cerebral fluids in goats adapted to high altitude p0277 A79-50902
- CEREBRUM**
- Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0234 A79-43205

- Composition of cerebral fluids in goats adapted to high altitude p0277 A79-50902
- A study of cerebral blood flow in the goat. A. Correlations between the ventilatory and cerebrovascular responses to carbon monoxide inhalation. B. The dynamics of the cerebral blood flow response to hypoxia by frequency response analysis p0107 N79-16510
- CERTIFICATION**
Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
- Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976 [FAA-AM-78-25] p0144 N79-18582
- CESSNA MILITARY AIRCRAFT**
U MILITARY AIRCRAFT
CF-104 AIRCRAFT
U F-104 AIRCRAFT
CHAIRS
U SEATS
CHALCOGENIDES
NT CARBON DIOXIDE
NT CARBON MONOXIDE
NT CARBON SUBOXIDES
NT HYDROGEN SULFIDE
NT NITROGEN DIOXIDE
NT NITROGEN OXIDES
NT NITROGEN TETROXIDE
NT SULFUR DIOXIDES
NT SULFUR OXIDES
CHANCE-VOUGHT MILITARY AIRCRAFT
U MILITARY AIRCRAFT
CHANNEL CAPACITY
Test of the 10 bits/sec channel-capacity hypothesis for human tracking p0253 A79-45771
- CHAPMAN-JOUGET FLAME**
U CHEMICAL EQUILIBRIUM
CHARCOAL
NT ACTIVATED CARBON
CHARGE SEPARATION
U POLARIZATION (CHARGE SEPARATION)
CHARGED PARTICLES
NT BETA PARTICLES
NT CATIONS
NT ELECTRONS
NT METAL IONS
NT POSITIVE IONS
CHECKOUT EQUIPMENT
U TEST EQUIPMENT
CHEMICAL ANALYSIS
NT GAS ANALYSIS
NT POTENTIOMETRIC ANALYSIS
NT QUANTITATIVE ANALYSIS
NT SPECTROSCOPIC ANALYSIS
NT URINALYSIS
Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611] p0175 N79-21744
Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133] p0189 N79-22755
- CHEMICAL BONDS**
A molecular description of oxygen binding to hemoglobin p0194 N79-23646
Binding of biologically active agents to plasma proteins [CL-1977-22] p0261 N79-29787
- CHEMICAL COMPOSITION**
NT CARBON DIOXIDE CONCENTRATION
Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118
Preliminary design specifications of a calcium model [NASA-CR-160199] p0217 N79-25716
- CHEMICAL COMPOUNDS**
Chemicals identified in human biological media, a pilot literature survey [PP-290690//J] p0214 N79-24649
Acute toxicity of a number of chemicals of interest to the Air Force [AD-A067313] p0220 N79-25742
- CHEMICAL EFFECTS**
Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite
- Chemicals in environment affect man's physiology p0299 A79-52475
p0077 N79-14754
- CHEMICAL ELEMENTS**
NT ALUMINUM
NT AMERICIUM 241
NT ARGON
NT CADMIUM
NT CALCIUM
NT CARBON
NT CARBON 14
NT CHROMIUM ISOTOPES
NT COPPER
NT COPPER ISOTOPES
NT HELIUM
NT HYDROGEN IONS
NT IODINE
NT IRON
NT LEAD (METAL)
NT MAGNESIUM
NT MERCURY (METAL)
NT NEON ISOTOPES
NT NITROGEN
NT OXYGEN
NT PALLADIUM
NT PHOSPHORUS
NT PLATINUM
NT POTASSIUM
NT POTASSIUM 40
NT RARE GASES
NT SELENIUM
NT SODIUM
NT SODIUM ISOTOPES
NT SODIUM 22
NT STRONTIUM
NT TRITIUM
NT VANADIUM
NT ZINC
NT ZIRCONIUM
Acute toxicity of a number of chemicals of interest to the Air Force [AD-A067313] p0220 N79-25742
- CHEMICAL ENERGY**
Solar-driven chemical energy source for a Martian biota p0254 A79-46464
- CHEMICAL EQUILIBRIUM**
NT ACID BASE EQUILIBRIUM
A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722
- CHEMICAL EVOLUTION**
On the reality of extraterrestrial biogenesis [IAF PAPER 78-A-51] p0003 A79-11344
Lifecloud: The origin of life in the universe --- Book p0061 A79-17123
Synthesis of organic compounds from carbon monoxide and water by UV photolysis p0099 A79-22077
Porphyrin-like compounds genesis under simulated abiotic conditions p0099 A79-22078
Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres p0099 A79-22079
Speculations of the evolution of the genetic code. II p0099 A79-22080
Evolution of a genetic code simulated with the computer p0100 A79-22081
Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions p0105 A79-24520
HCN did not condense to give heteropolypeptides on the primitive earth p0133 A79-26542
Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide p0162 A79-29938
A review of recent concepts of the problem of the origin of life p0221 A79-36041
Prebiotic molecular evolution p0203 A79-37928

- Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums
p0203 A79-37935
- Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere
p0203 A79-37937
- Incorporation of sulphur in chemical evolution
p0203 A79-37938
- A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution
p0204 A79-37957
- Quantitative aspects of the effect of weak interaction during chemical evolution
p0204 A79-37959
- Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium
p0204 A79-37964
- Takeover mechanisms and early biochemical evolution
p0205 A79-37965
- Sulfate-reducing bacteria and biochemical evolution
p0205 A79-37967
- Some characteristic features of the origin and evolution of the amino acid composition of proteins - A theoretical consideration
p0206 A79-37973
- Evolution of transfer RNA
p0206 A79-37975
- Epimerization of L-isoleucine on Na-montmorillonite and its implication to Precambrian chemical fossils
p0206 A79-37979
- The study of the origin of life - Results and prospects
p0206 A79-37981
- The crisis in the problem of the origin of life
p0207 A79-37982
- A critical assessment of the origin of life
p0207 A79-37985
- Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria'
p0232 A79-42274
- Carbon suboxide and the genetic code --- in biochemical evolution
p0252 A79-44865
- Goodman et al.'s method for augmenting the number of nucleotide substitutions
p0253 A79-45639
- On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei --- for mutational change in protein evolution
p0253 A79-45640
- A proposal concerning the origin of life on the planet earth
p0253 A79-45641
- Polymers produced by heating an amino acid mixture in sea water enriched with transition elements
p0254 A79-46461
- Mirror symmetry breaking in biochemical evolution
p0254 A79-46462
- Prebiotic coordination chemistry: The potential role of transition-metal complexes in the chemical evolution
[NASA-TM-75381]
p0169 A79-20715
- Publications of the planetary biology program for 1977: A special bibliography
[NASA-TM-80338]
p0179 A79-21777
- Publications of the planetary biology program for 1978: A special bibliography
[NASA-TM-80745]
p0319 A79-33854
- CHEMICAL FUELS**
- NT DIESEL FUELS
- NT JET ENGINE FUELS
- NT SYNTHETIC FUELS
- CHEMICAL KINETICS**
- U REACTION KINETICS
- CHEMICAL PROPERTIES**
- NT SALINITY
- A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds
[AD-A056019]
p0025 N79-11685
- CHEMICAL REACTIONS**
- NT CARBOXYLATION
- NT DECARBOXYLATION
- NT FERMENTATION
- NT OXIDATION
- NT OXIDATION-REDUCTION REACTIONS
- NT OXYGENATION
- NT PHOSPHORYLATION
- NT PHOTOCHEMICAL REACTIONS
- NT PHOTOLYSIS
- NT PHOTOXIDATION
- NT PHOTOSYNTHESIS
- NT PYROLYSIS
- NT REDUCTION (CHEMISTRY)
- CHEMICAL SHIFT**
- U CHEMICAL EQUILIBRIUM
- CHEMICAL TESTS**
- NT CHEMICAL ANALYSIS
- NT GAS ANALYSIS
- NT POTENTIOMETRIC ANALYSIS
- NT QUANTITATIVE ANALYSIS
- NT SPECTROSCOPIC ANALYSIS
- NT URINALYSIS
- CHEMILUMINESCENCE**
- Effect of different doses of centimeter-band electromagnetic oscillations of bioluminescence of central nervous system and liver tissues
p0172 N79-20738
- CHEMISORPTION**
- Study report on a double isotope method of calcium absorption
[NASA-CR-160194]
p0216 N79-25712
- Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs
p0312 N79-33803
- CHEMISTRY**
- NT INTERSTELLAR CHEMISTRY
- CHEMORECEPTORS**
- Current conceptions of the mechanism of the effect of chemical stimulus on taste receptors
p0043 A79-14375
- CHEMOTHERAPY**
- The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (EMR)
p0018 N79-10733
- The control and prevention of seizures in children, a developmental and environmental approach
p0094 N79-15892
- Isolation of virus-augmented tumor antigens
p0142 N79-18564
- CHESAPEAKE BAY (US)**
- Results of benthic studies at Calvert Cliffs [PB-294261/3]
p0261 N79-29788
- CHEST**
- Contribution of rib cage and abdomen-diaphragm to tidal volume during CO₂ rebreathing
p0185 A79-33805
- New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1]
p0018 N79-10735
- CHICKENS**
- Influence of the ambient acceleration field upon acute acceleration tolerance in chickens
p0230 A79-41715
- Prospects of using Japanese quail in biological life support systems
p0109 N79-16531
- CHILDREN**
- The child in coma
p0094 N79-15890
- The control and prevention of seizures in children, a developmental and environmental approach
p0094 N79-15892
- Orthomolecular enhancement of human development
p0095 N79-15895
- Intelligence
p0095 N79-15896
- Calibration of three year old child dummies [PB-288961/6]
p0157 N79-19692
- CHILLING**
- U COOLING

- CHIMES**
U AUDITORY SIGNALS
- CHIMPANZEES**
Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics p0133 A79-27105
- CHLORELLA**
Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- CHLORIDES**
NT SODIUM CHLORIDES
NT ZINC CHLORIDES
- CHLORINE COMPOUNDS**
NT SODIUM CHLORIDES
NT ZINC CHLORIDES
- CHLOROPHYLLS**
In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria p0131 A79-26100
- Applications of chlorophyll fluorescence transient measurements to the functional analysis of photosynthetic processes p0243 N79-27813
- CHLOROPLASTS**
Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- CHOICE**
U SELECTION
- CHOKES**
Case report - Intracardial gas bubbles in relation to altitude decompression chokes p0011 A79-12871
- CHOLESTEROL**
The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement p0028 N79-11703
- Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- CHOLINESTERASE**
Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4] p0051 N79-12698
- Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates p0121 N79-17527
- CHROMATOGRAPHY**
NT GAS CHROMATOGRAPHY
- CHROMIUM**
NT CHROMIUM ISOTOPES
- CHROMIUM ISOTOPES**
RBC/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
- CHROMOSOMES**
Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
- Effect of accelerations combined with radiation on occurrence of gene mutations in the drosophila p0016 N79-10720
- Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1] p0050 N79-12694
- CHRONOLOGY**
NT GEOCHRONOLOGY
- CHRONOTRONS**
U TIME LAG
- CINEFLUOROGRAPHY**
U RADIOGRAPHY
- CINEMATOGRAPHY**
A cinematographic technique for investigating some aspects of visual recognition p0300 A79-53067
- CIMERADIOGRAPHY**
U RADIOGRAPHY
- CIRCADIAN RHYTHMS**
Comparison of circadian rhythms in male and female humans p0004 A79-11947
- Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948
- Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 A79-43202
- Circadian rhythm of electrolyte urea in healthy persons p0257 A79-46681
- The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man p0267 A79-47398
- Stability of circadian system of the body p0073 N79-14723
- Task complexity and 24-hr performance patterns in morning and evening active subjects [FOA-C-52001-H6] p0122 N79-17537
- Human circadian physiology: Internal organization of temperature, sleep-wake and neuroendocrine rhythms monitored in an environment free of time cues p0154 N79-19670
- CIRCUIT DIAGRAMS**
The development of a whole-body algorithm [NASA-CR-160214] p0218 N79-25730
- CIRCUITS**
NT HYBRID CIRCUITS
NT INTEGRATED CIRCUITS
NT SWITCHING CIRCUITS
NT TRANSMISSION CIRCUITS
- CIRCULATION**
NT BLOOD CIRCULATION
NT BRAIN CIRCULATION
NT CORONARY CIRCULATION
NT INTRAVASCULAR SYSTEM
NT ISCHEMIA
NT PERIPHERAL CIRCULATION
NT PULMONARY CIRCULATION
- CIRCULATORY SYSTEM**
NT AORTA
NT ARTERIES
NT BLOOD VESSELS
NT CAPILLARIES (ANATOMY)
NT VASCULAR SYSTEM
NT VEINS
Mathematical simulation of the human circulatory system p0110 N79-16535
- Evaluation of exercise-respiratory system modifications and preliminary respiratory-circulatory system integration scheme [NASA-CR-160221] p0212 N79-24639
- On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
- Study report on modification of the long term circulatory model for the simulation of bed rest [NASA-CR-160186] p0218 N79-25727
- User's instructions for the Guyton circulatory dynamics model using the Univac 1110 batch and demand processing (with graphic capabilities) [NASA-CR-160215] p0218 N79-25731
- Evaluation of exercise-respiratory system modifications and integration schemes for physiological systems [NASA-CR-160223] p0219 N79-25733
- CITIES**
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/9] N79-25750
- Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4] p0241 N79-26779
- CIVIL AVIATION**
Current role of alcohol as a factor in civil aircraft accidents p0136 A79-27561
- Disability pattern amongst civil aircrew p0182 A79-33192
- Soviet civil aviation training programs p0270 A79-49221
- Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
- CLASSIFICATIONS**
NT HIERARCHIES
The systems analytic approach to the problem of classification of scientific medical research

CLAYS	p0078 N79-14766	Possibility of improving assessment of cardio-pulmonary function by submaximal exercise on a bicycle ergometer [BLL-RTS-11657] p0279 N79-30918
NT KAOLINITE		
NT MONTMORILLONITE		
CLEAN ROOMS		
Planetary protection guidelines for Outer Planet missions	p0005 A79-12511	
CLEANERS		
Spacecraft utensil/hand cleansing fixture [NASA-CR-151845]	p0032 N79-11731	
Spacecraft utensil/hand cleansing fixture, addendum [NASA-CR-151846]	p0032 N79-11732	
CLIMATOLOGY		
NT MICROCLIMATOLOGY		
CLINICAL MEDICINE		
Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits	p0098 A79-21246	
Pneumothorax and flight personnel --- incidence, etiology and treatment	p0103 A79-23956	
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel	p0104 A79-23959	
Characteristics of serious carbon monoxide poisoning	p0167 A79-32100	
Myocardial infarction in young men	p0188 A79-35137	
+Gz tolerance correlation with clinical parameters	p0235 A79-43213	
Noninvasive cardiovascular measurements --- Book	p0293 A79-51026	
Computer quantitation of coronary angiograms	p0293 A79-51030	
Clinical applications of new echocardiographic techniques	p0295 A79-51040	
Cardiac blood flow measurement - A component of the comprehensive cardiac examination	p0295 A79-51041	
Biomagnetic instrumentation and measurement	p0295 A79-51043	
Clinical magnetocardiography	p0295 A79-51044	
Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs	p0028 N79-11707	
Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock	p0029 N79-11714	
Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles	p0030 N79-11716	
The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers	p0030 N79-11718	
Clinical comparisons of pressure pulse and indicator dilution methods of determining cardiac output	p0050 N79-12690	
Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1]	p0050 N79-12694	
Noninvasive estimation of bilirubin and hemoglobin oxygen saturation in the skin by reflection spectrophotometry	p0054 N79-13684	
Early detection of disease: The correlation of the volatile organic profiles from patients with upper respiratory infections with subjects of normal profiles [NASA-CR-160100]	p0121 N79-17532	
Evaluation of clinical biofeedback [PB-287776/9]	p0123 N79-17544	
The role of computer technology mathematical models in treatment of patients following heart surgery	p0170 N79-20721	
Liquid crystal developments for medicine	p0175 N79-21746	
Study report on combining diagnostic and therapeutic considerations with subsystem and whole-body simulation [NASA-CR-160231]	p0213 N79-24644	
CLOTHES		
U FEEDBACK CONTROL		
CLOSTRIDIUM BOTULINUM		
The effect of ultrasound on botulin toxin [AD-A059544]	p0142 N79-18566	
CLOSURES		
A fluid-mechanical study of the closure of heart valves	p0161 A79-29540	
CLOTH		
U FABRICS		
CLOTHING		
NT BOOTS (FOOTWEAR)		
NT COVERALLS		
NT FLIGHT CLOTHING		
NT GLOVES		
NT GOGGLES		
NT HELMETS		
NT PRESSURE SUITS		
NT PROTECTIVE CLOTHING		
NT SPACE SUITS		
NT SUITS		
CLOTTING		
Tissular blood clotting factors of vascular walls and myocardium during hypokinesia	p0194 N79-23644	
Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia	p0313 N79-33813	
COAGULATION		
NT BLOOD COAGULATION		
Scanning and transmission electron microscopy of the blood-bubble interface in decompressed rats	p0266 A79-47333	
COASTAL ECOLOGY		
A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem	p0132 A79-26373	
COASTAL MARSHLANDS		
U MARSHLANDS		
COASTAL WATER		
The application of remote sensors to a model for fish mapping [INPE-1379-PE/176]	p0071 N79-14712	
COATINGS		
NT PAINTS		
NT PROTECTIVE COATINGS		
COCHLEA		
Effects of acute noise traumata on whole-nerve and single-unit activity [IZF-1978-23]	p0308 N79-32829	
COCKPIT SIMULATORS		
Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft	p0236 A79-43675	
COCKPITS		
Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22]	p0007 A79-12571	

- Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit
p0038 A79-13205
- Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits
p0039 A79-13213
- Factors that affect display size criteria in a cockpit display system
p0063 A79-18212
- Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries
p0183 A79-33632
- Effect of cockpit temperature gradients on the validity of single-point measurements
p0234 A79-43203
- Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations
p0266 A79-47334
- Internal cockpit reflections of external point light sources for the model YAH-64 advanced attack helicopter
[AD-A056489]
p0033 N79-11744
- In-flight toxicology of fixed and rotary wing aircraft crew stations
p0149 N79-19619
- The use of biostereometry in helicopter cockpit design --- using a simulator and analytic geometry
p0150 N79-19629
- The effective acoustic environment of helicopter crewmen
p0152 N79-19645
- A human body and crew station modelling system for motion studies
p0287 N79-31922
- COENZYMES**
- NT CYTOCHROMES
- Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of Saccharomyces cerevisiae
p0162 A79-30125
- COGNITION**
- Shalit Perceptual Organization and Reduction Questionnaire (SPORQ). Report 2: Characteristics and reliability
[FOA-C-55031-H6]
p0309 N79-32836
- COGNITIVE PSYCHOLOGY**
- Rhythms in human performance - 1-1/2-hour oscillations in cognitive style
p0210 A79-39601
- The role of cognitive switching in head-up displays --- to determine pilot ability to accurately extract information from either of two sources [NASA-CR-3137]
p0318 N79-33851
- COHERENT ANTI-STOKES RAMAN SPECTROSCOPY**
- U RAMAN SPECTROSCOPY
- COLD ACCLIMATIZATION**
- Human psychophysiology in extremal conditions --- Russian book on polar region adaptation
p0048 A79-15977
- Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold
p0128 A79-24636
- Thermoregulation in swimmers and runners
p0227 A79-41186
- Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice
p0268 A79-47855
- COLD TOLERANCE**
- Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold
p0128 A79-24636
- Responses of high altitude natives to a standard cold test at sea level
p0164 A79-30658
- Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G
p0227 A79-41185
- Bimodal relationship of human tremor and shivering on introduction to cold exposure
p0298 A79-52278
- Uncommon hypersensitivity to contacting cold water and cold air with propagated reflex-like erythema development
[BLL-RTS-11644]
p0279 N79-30917
- COLD WATER**
- Cold water survival suits for aircrew
p0298 A79-52282
- Survival and protection of aircrew in the event of accidental immersion in cold water
[AGARD-AG-211(BNG)]
p0196 N79-23661
- COLD WEATHER TESTS**
- Responses of high altitude natives to a standard cold test at sea level
p0164 A79-30658
- Evaluation of British and Canadian conductive rubber heating elements for handwear: preliminary report
[AD-A052826]
p0093 N79-15637
- Man and material in the cold regions, part 1
[AD-A063752]
p0178 N79-21771
- COLLAGENS**
- Raman and infrared investigations of the nature of intracellular water
[AD-A061254]
p0120 N79-17522
- COLLECTION**
- Urine collection apparatus
[NASA-CASE-MSC-18381-1]
p0195 N79-23657
- COLLISION AVOIDANCE**
- Human factors considerations in establishing aircraft collision avoidance system alert thresholds
p0045 A79-14438
- Collision avoidance response stereotypes in pilots and nonpilots
p0068 A79-18995
- COLLISION WARNING DEVICES**
- U COLLISION AVOIDANCE
- U WARNING SYSTEMS
- COLLISIONS**
- NT BIRD-AIRCRAFT COLLISIONS
- NT MIDAIR COLLISIONS
- Test and evaluation of head restraints, seat backs, and anchorages in vehicles subjected to rear impact collision
[PR-289779/1]
p0178 N79-21773
- COLLOIDS**
- NT AEROSOLS
- NT FOG
- Coacervate drops as a model for precellular structures
p0204 A79-37960
- Coacervate drops - Primitive forms of precells
p0204 A79-37962
- COLOR**
- Regression models of search time for color-coded information displays
p0209 A79-38359
- Light and color on a manned spacecraft
p0059 N79-13996
- Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation
[AD-A063852]
p0189 N79-22756
- COLOR PERCEPTION**
- U COLOR VISION
- COLOR TELEVISION**
- Digital color image compression in a perceptual space
p0136 A79-28013
- A 25-inch precision color display for simulator visual systems
p0137 A79-28164
- Contrast sensitivity of the human eye to various display phosphor types
[AD-A058383]
p0056 N79-13695
- COLOR VISION**
- Apparent saturation of blue-sensitive cones occurs at a color-opponent stage
p0002 A79-10474
- Four years of color research for visual displays --- human performance consideration for use in aircraft
p0039 A79-13210
- A controller's eye view of color
p0102 A79-23596
- Visual acuity with regard to simultaneous colored contrast on a television screen - Results
p0103 A79-23952
- Aeromedical implications of the X-Chrom lens for improving color vision deficiencies
p0135 A79-27556
- Recognition by the human eye of colored symbols on different backgrounds

COLORATION

SUBJECT INDEX

ISAAC-1 - A color sensing robot	p0136 A79-27673	[AD-A071574]	p0310 N79-32842
Chromatic border distinctness - Not an index of hue or saturation differences	p0138 A79-28168	COMMAND-CONTROL U COMMAND AND CONTROL	
Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II	p0139 A79-28332	COMMERCIAL AIRCRAFT Coordinated crew performance in commercial aircraft operations	
Visual contrast sensitivity functions obtained with colored and achromatic gratings	p0166 A79-31178	COMMERCIAL AVIATION U CIVIL AVIATION	
Detection of colored stimuli by independent linear systems	p0231 A79-42229	COMMUNICATING NT AIRCRAFT COMMUNICATION	
Enhancement of luminance flicker by color-opponent mechanisms	p0252 A79-44582	NT INFORMATION DISSEMINATION NT VERBAL COMMUNICATION	
Using color substitution pupil response to expose chromatic mechanisms	p0265 A79-47116	COMMUNICATION NT INFORMATION DISSEMINATION	
Contrast sensitivity of the human eye to various display phosphor types [AD-A058383]	p0056 N79-13695	NT VERBAL COMMUNICATION [NASA-CR-157886]	p0032 N79-11730
Providing an eye separator on a color cathode tube --- enhancing visual acuity	p0152 N79-19639	COMMUNICATION EQUIPMENT NT STEREOTELEVISION	
Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation	p0192 N79-23632	COMMUNICATION SYSTEMS U TELECOMMUNICATION	
Restoration of color perception after deadaptation flashes	p0193 N79-23640	COMMUNICATION THEORY NT WORDS (LANGUAGE)	
Contribution to the theory of photopic vision: Retinal phenomena [NASA-TM-75507]	p0315 N79-33823	COMMUNITIES NT MOUNTAIN INHABITANTS	
COLORATION U COLOR		COMPARTMENTS NT AIRCRAFT COMPARTMENTS	
COMA The child in coma	p0094 N79-15890	NT HYPERBARIC CHAMBERS NT PRESSURE CHAMBERS	
Coma recovery	p0094 N79-15891	NT TEST CHAMBERS	
COMBAT An Air Combat Effectiveness Study /ACES/ program	p0040 A79-13222	COMPATIBILITY NT ELECTROMAGNETIC COMPATIBILITY	
Development of automated performance measures for introductory air combat maneuvers	p0040 A79-13223	NT SYSTEMS COMPATIBILITY Investigation of psychological compatibility of crew members of multiseat aircraft	
Air Combat Maneuvering Range /ACMR/ - Has operational performance measurement entered a Golden Age	p0064 A79-18221	p0166 A79-31165	
Methodology to assess psychological stress and its impact in the air combat environment [AD-A053474]	p0057 N79-13707	COMPENSATORY TRACKING Vigilance and electroencephalogram --- human performance in compensatory target tracking	
Air-to-air combat skills: Contribution of platform motion to inertial training [AD-A062738]	p0173 N79-20743	p0100 A79-22975	
COMBINED STRESS Physiological and performance measurements in simulated airborne combined stress environments	p0202 A79-37710	Visual cues in manual tracking of simulated targets	
COMBUSTION PRODUCTS Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene	p0066 A79-18306	p0103 A79-23792	
COMFORT A study of the available evidence on duration effects on comfort and task proficiency under vibration	p0254 A79-46399	The effects of carbon monoxide on dual-task performance	
COMMAND AND CONTROL The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft	p0061 A79-17683	p0161 A79-29716	
Man-terminal interaction evaluation of computer operating system command and control service concepts --- in Spacelab	p0064 A79-18224	A structural model of the adaptive human pilot [AIAA 79-1784]	
Combined monitoring, decision and control model for the human operator in a command and control desk	p0092 N79-15631	p0252 A79-45411	
Combined discrete network: Continuous control modeling of man-machine systems		Modeling human tracking performance in a high G-stress environment	
		p0269 A79-48012	
		Human operators in adversary tracking encounters	
		p0269 A79-48015	
		Effects of information processing requirements on reaction time of the eye [AD-A060099]	
		p0080 N79-14778	
		COMPLEX SYSTEMS Task functional demands as factors in dual-task performance	
		p0039 A79-13214	
		The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft	
		p0061 A79-17683	
		Evaluation of models describing human operator control of slowly responding complex systems --- Thesis	
		p0167 A79-31494	
		Application of computer animation for dynamic display in complex energy systems --- for human operator performance improvement	
		p0186 A79-34172	
		COMPLEXITY NT TASK COMPLEXITY	
		COMPLIANCE (ELASTICITY) U MODULUS OF ELASTICITY	
		COMPOSITION (PROPERTY) NT ATMOSPHERIC COMPOSITION	
		NT CARBON DIOXIDE CONCENTRATION	
		NT CHEMICAL COMPOSITION	
		NT CONCENTRATION (COMPOSITION)	
		NT MOISTURE CONTENT	
		COMPRESSED GAS NT HIGH PRESSURE OXYGEN	
		COMPRESSION LOADS NT AXIAL COMPRESSION LOADS	

COMPUTER ASSISTED INSTRUCTION

A computer-based simulator simulator ---
computer-assisted pilot training p0039 A79-13215

Transfer of a computer-assisted instrument
procedures trainer to flight p0039 A79-13216

The evaluation of a complex computer-based flight
procedures trainer p0161 A79-29717

ARPA authoring system
[AD-A064723] p0190 N79-22762

COMPUTER GRAPHICS

Digital enhancement of computerized axial tomograms
p0004 A79-11544

Computer-graphic design for human performance
[AD-A055132] p0046 A79-15399

Perception of graphic displays of space
p0062 A79-18205

Visual cues in manual tracking of simulated targets
p0103 A79-23792

Recent developments and plans for pilot training
devices [SAE PAPER 781007] p0130 A79-25889

Object, illusion and frame of reference as design
criteria for computer-generated displays
p0137 A79-28157

Digital image anomalies - Static and dynamic ---
rastering and aliasing effects and elimination
p0137 A79-28158

Windshield quality and pilot performance
measurement utilizing computer-generated imagery
p0137 A79-28165

Transfer of landing skill after training with
supplementary visual cues p0138 A79-28167

A fast-reacting and versatile optokinetic stimulus
pattern by computer graphics with application
examples p0160 A79-28993

Application of computer animation for dynamic
display in complex energy systems --- for human
operator performance improvement p0186 A79-34172

The development of integrated multidimensional
displays p0187 A79-34990

Real-time computerized fluoroscopic cardiac imaging
p0294 A79-51035

Pilot performance during simulated approaches and
landings made with various computer-generated
visual glidepath indicators p0297 A79-52276

A spherical representation of a human body for
visualizing movement p0301 A79-53096

Analysis and validation of human biodynamic models
[AD-A059013] p0058 N79-13714

Graphic display of human motion
[AD-A064344] p0190 N79-22763

Transient thermoregulatory model with graphics
output [NASA-CR-160217] p0212 N79-24637

COMPUTER METHODS**COMPUTER PROGRAMS****COMPUTER PROGRAMMING****NT ON-LINE PROGRAMMING**

Prospects of a mathematical theory of human
behavior in complex man-machine systems tasks
--- time sharing computer analogy of automobile
driving p0088 N79-15599

Modifications to the steady-state 41-node
thermoregulatory model including validation of
the respiratory and diffusional water loss
equations [NASA-CR-160219] p0219 N79-25738

COMPUTER PROGRAMS**NT INPUT/OUTPUT ROUTINES****NT SUBROUTINES**

A theoretical model to estimate some ergonomic
parameters from age, height and weight
p0132 A79-26150

Computer quantitation of angiographic images
p0293 A79-51028

Generalized environmental control and life support
system computer program (G1894), phase 3
[NASA-CR-151836] p0019 N79-10741

A survey of existing computer programs for aircrew
workload assessment [AD-A058518] p0059 N79-13718

Editing procedure for anthropometric survey data
[AD-A060393] p0093 N79-15639

Human operator identification model and related
computer programs [NASA-CR-152237] p0112 N79-16551

Speech as a pilot input medium p0119 N79-17519

Computer program for calculation of oxygen uptake
[NASA-TM-78585] p0174 N79-21741

A discrete parameter model of the head and neck
with neuromuscular feedback p0211 N79-24627

Fluid and Electrolyte Balance model (FEB)
[NASA-CR-160206] p0211 N79-24633

Design specification for the whole-body algorithm
[NASA-CR-160226] p0212 N79-24641

User's instructions for the cardiovascular Walters
model [NASA-CR-160204] p0217 N79-25721

On a basic model of circulatory, fluid, and
electrolyte regulation in the human system based
upon the model of Guyton [NASA-CR-160212] p0218 N79-25725

User's instructions for the Guyton circulatory
dynamics model using the Univac 1110 batch and
demand processing (with graphic capabilities)
[NASA-CR-160215] p0218 N79-25731

User's instructions for the GE cardiovascular
model to simulate LBNP and tilt experiments,
with graphic capabilities [NASA-CR-160216] p0219 N79-25732

Evaluation of exercise-respiratory system
modifications and integration schemes for
physiological systems [NASA-CR-160223] p0219 N79-25733

User's guide for the Skylab integrated medical
data analysis system [NASA-CR-160189] p0220 N79-25740

The application of MINIQUASI to thermal program
boundary and initial value problems
[NASA-CR-160227] p0222 N79-25759

Review of unfolding methods used in the US and
their standardization for dosimetry
[BNWL-SA-6503] p0307 N79-32828

COMPUTER SIMULATION**COMPUTERIZED SIMULATION****COMPUTER STORAGE DEVICES****NT RANDOM ACCESS MEMORY****COMPUTER SYSTEMS DESIGN**

Pilot preflight briefing utilizing an interactive
computer generated Voice Response System
p0167 A79-31887

COMPUTER SYSTEMS PROGRAMS**NT INPUT/OUTPUT ROUTINES****COMPUTER TECHNIQUES**

High-speed computerized tomography

p0004 A79-12030

Models for automated motor skills training ---
computer controlled adaptive instruction
p0035 A79-13182

The application of computer aided evaluative
techniques to system test and evaluation --- of
fighter aircraft pilot performance

p0036 A79-13190

Response surface methodology as a manipulator of
complex task difficulty --- for computer
generated aircraft area navigation
control-display systems evaluation

p0039 A79-13211

Computerized clinical electroencephalography in
perspective

p0226 A79-40648

Automatic recognition of spoken words using a
functional model of the auditory system
p0235 A79-43464

Visually estimating workpiece pose in a robot hand
using the feature points method

p0269 A79-48018

Computer augmented manual control of remote
manipulators

p0269 A79-48019

An operator-aiding manipulator control system
p0269 A79-48020

Computer quantitation of coronary angiograms
p0293 A79-51030

- Visual motion perception by intelligent systems p0300 A79-52691
 New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1] p0018 N79-10735
 New principles of automation of biomedical research p0078 N79-14763
 TADRAP: A computer-aided technique for reducing aircrew task analysis data --- helicopter design considering human factors p0150 N79-19628
 A systematic approach to computer analysis of pulmonary vascular patterns p0176 N79-21756
 A computer system for statistical analysis of EEG transients p0216 N79-25707
- COMPUTERIZED CONTROL**
U NUMERICAL CONTROL
COMPUTERIZED DESIGN
 Computer-graphic design for human performance [AD-A055132] p0046 A79-15399
 Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300
- COMPUTERIZED SIMULATION**
NT ANALOG SIMULATION
NT DIGITAL SIMULATION
 Modeling and analysis using SAINT - A combined discrete/continuous network simulation language --- Systems Analysis of Integrated Network of Tasks for RPV p0004 A79-11480
 Various modeling approaches in biomechanics --- analog simulation of impact events p0005 A79-12407
 Human factors design criteria for transilluminated displays p0036 A79-13187
 Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool p0037 A79-13196
 Refinement of a computer simulation model for evaluating DAIS display concepts --- Digital Avionics Information System p0038 A79-13209
 Evolution of a genetic code simulated with the computer p0100 A79-22081
 Linearization and sensitivity analysis of model for human eye movements p0102 A79-23783
 The evaluation of a complex computer-based flight procedures trainer p0161 A79-29717
 Thermal bounds to the time of stay of human beings in enclosures p0231 A79-41770
 Adjustment of an electronic model for electrocardiogram simulation p0232 A79-42240
 On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei --- for mutational change in protein evolution p0253 A79-45640
 Test of the 10 bits/sec channel-capacity hypothesis for human tracking p0253 A79-45771
 A spherical representation of a human body for visualizing movement p0301 A79-53096
 Applied analysis of computer simulated decompression profiles p0017 N79-10722
 Simple models for the shuttle remote manipulator system [NASA-CR-151881] p0113 N79-16554
 Physiological system integrations with emphasis on the respiratory-cardiovascular system [NASA-CR-160230] p0213 N79-24643
 The application of sensitivity analysis to models of large scale physiological systems [NASA-CR-160228] p0213 N79-24645
 User's instructions for the erythropoiesis regulatory model [NASA-CR-160193] p0216 N79-25711
- Use of a computer model in the understanding of erythropoietic control mechanisms [NASA-CR-160201] p0217 N79-25718
 Dynamic regulation of erythropoiesis: A computer model of general applicability [NASA-CR-160203] p0217 N79-25720
 User's instructions for the cardiovascular Walters model [NASA-CR-160204] p0217 N79-25721
 Study report on modification of the long term circulatory model for the simulation of bed rest [NASA-CR-160186] p0218 N79-25727
 Improvements and validation of the erythropoiesis control model for bed rest simulation [NASA-CR-160187] p0218 N79-25728
 User's instructions for the GE cardiovascular model to simulate LBNP and tilt experiments, with graphic capabilities [NASA-CR-160216] p0219 N79-25732
 Sensory mechanism modeling [AD-A069439] p0262 N79-29796
 Prediction of whole-body response to impact forces in flight environments p0284 N79-31902
 Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903
 The validation of biodynamic models p0286 N79-31914
 A human body and crew station modelling system for motion studies p0287 N79-31922
 Models of human operators in vision dependent tasks [NASA-CP-2103] p0317 N79-33838
 A survey of Applied Psychological Services' models of the human operator p0317 N79-33839
 SAINT: A combined simulation language for modeling man-machine systems p0317 N79-33842
- COMPUTERS**
NT AIRBORNE/SPACEBORNE COMPUTERS
NT HYBRID COMPUTERS
 The role of computer technology mathematical models in treatment of patients following heart surgery p0170 N79-20721
- CONCENTRATION (COMPOSITION)**
NT CARBON DIOXIDE CONCENTRATION
NT MOISTURE CONTENT
 A photometer for determining the biomass of microorgan from the ATP content [BLL-RTS-11456] p0141 N79-18555
 Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643
 Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station p0244 N79-27820
 Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub Z stress p0286 N79-31916
- CONCENTRATORS**
 Health and safety hazards associated with solar concentration systems p0200 A79-36628
- CONDENSATION**
 Prebiotic condensation reactions using cyanamide p0203 A79-37932
 Prebiotic condensation of oligonucleotide p0204 A79-37945
- CONDITIONED REFLEXES**
 Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
 Ultrastructural development of the vestibular system of frog larvae in 0g simulation [IAF PAPER 79-78] p0301 A79-53287
 Neurophysiological bases of vestibular conditioning p0013 N79-10699
- CONDITIONED RESPONSES**
U CONDITIONING (LEARNING)
- CONDITIONING**
 Effect of physical conditioning on cardiac mitochondrial function p0068 A79-18966

SUBJECT INDEX**CONTACT DERMATITIS**

Sweating responses during heat acclimation and moderate conditioning	p0185 N79-33803	Ultrasonic tissue characterization II [PE-296356/9]	p0316 N79-33836
CONDITIONING (LEARNING)		CONFINEMENT	
Role of autogenic training in psychophysiological conditioning of aviation school students	p0098 N79-21244	The influence of hyperbaric environment in combination with workload and confinement on human information processing [DLR-FB-78-12]	p0280 N79-30926
Rat behavior in maze after flight aboard Kosmos-690 biosatellite	p0014 N79-10705	CONFIRMATION	
CONDUCTIVE HEAT TRANSFER		U PROVING	
Modeling heat transfer through human skin subjected to high external temperatures	p0102 N79-23782	COULENCE	
Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues	p0233 N79-42932	U CONVERGENCE	
CONDUCTORS		CONGENITAL ANOMALIES	
NT ELECTROLYTES		Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations [AD-A059412]	p0084 N79-15577
CONES		CONGENITAL CONDITIONS	
Evidence for the equivalent-background hypothesis in cones --- for dark adaptation thresholds	p0232 N79-42233	U CONGENITAL ANOMALIES	
CONFERENCES		CONGRESSIONAL REPORTS	
Life sciences and space research XVI; Proceedings of the Open Meetings of the Working Group on Space Biology, Tel Aviv, Israel, June 7-18, 1977	p0005 N79-12508	Extraterrestrial intelligence research [GPO-35-355]	p0094 N79-15645
Human Factors Society, Annual Meeting, 21st, San Francisco, Calif., October 17-20, 1977, Proceedings	p0035 N79-13181	Radiation protection [GPO-35-583]	p0283 N79-31899
Human Factors Society, Annual Meeting, 22nd, Detroit, Mich., October 16-19, 1978, Proceedings	p0062 N79-18201	CONICAL FLARE	
Visual simulation and image realism; Proceedings of the Seminar, San Diego, Calif., August 30, 31, 1978	p0137 N79-28156	U CONES	
Origin of life; Proceedings of the Second ISSOL Meeting and Fifth ICOL Meeting, Kyoto, Japan, April 5-10, 1977	p0203 N79-37919	CONNECTIVE TISSUE	
Life sciences and space research XVII; Proceedings of the Open Meeting of the Working Group on Space Biology, May 29-June 10, 1978, and Symposium on Gravitational Physiology, Innsbruck, Austria, June 2, 3, 1978	p0228 N79-41701	NT CARTILAGE	
Aero Medical Society of India, Annual Meeting, 21st, Bangalore, India, December 15, 16, 1978, Proceedings	p0271 N79-49726	NT COLLAGENS	
Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051]	p0017 N79-10728	Subcutaneous channeling probe [NASA-CASE-ARC-11091-1]	p0025 N79-11684
Proceedings of the 1977 Computerized Adaptive Testing Conference [AD-A060049]	p0079 N79-14771	CONNECTORS	
The Physical Basis of Electromagnetic Interactions with Biological Systems [HEW-PUB-FDA-78-8055]	p0081 N79-15551	NT ELECTRIC CONNECTORS	
The 14th Annual Conference on Manual Control --- digital simulation of human operator dynamics [NASA-CP-2060]	p0086 N79-15588	CONNECTORS (ELECTRIC)	
Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium. Volume 2: USSR Symposium [PB-287219/0]	p0112 N79-16546	U ELECTRIC CONNECTORS	
Proceedings, 13th Annual Conference on Manual Control [NASA-CR-158107]	p0114 N79-17475	CONSCIOUSNESS	
Operational Helicopter Aviation Medicine [AGARD-CP-255]	p0148 N79-19605	Consciousness alteration in space [AIAA PAPER 79-1430]	p0187 A79-34853
Orenburg symposium on mycotoxins	p0175 N79-21749	CONSECUTIVE EVENTS	
Report of the Workshop on Biological Screening Tests [PB-294303/3]	p0279 N79-30916	Petri nets as a modeling tool for discrete concurrent tasks of the human operator --- describing sequential and parallel demands on human operators	p0088 N79-15600
Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253]	p0284 N79-31901	CONSOLES	
Third Symposium on Motion Sickness	p0313 N79-33814	Seating, console and workplace design - Seated operator reach profiles	p0036 A79-13188
		Seating, console, and workplace design - Integration of literature and accommodation model	p0036 A79-13189
		Human factors evaluation of the AN/UQ-21 display console [AD-A056383]	p0020 N79-10743
		CONSTRAINTS	
NT METEORLOGICAL PARAMETERS		Test and evaluation of head restraints, seat backs, and anchorages in vehicles subjected to rear impact collision [PB-289779/1]	p0178 N79-21773
CONSTRUCTION		The design and construction of a miniature dosimeter for the study of the effects of air cavities in radiation therapy	p0176 N79-21757
CONSUMABLES (SPACECRAFT)		CONSUMABLES (SPACECRAFT)	
NT CONSUMABLES (SPACECREW SUPPLIES)		Food packages for Space Shuttle [ASME PAPER 78-ENAS-13]	p0007 A79-12562
NT SPACE RATIONS		Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research [NASA-CR-158846]	p0260 N79-28880
CONSUMABLES (SPACECREW SUPPLIES)		CONSUMPTION	
NT DEHYDRATED FOOD		NT OXYGEN CONSUMPTION	
NT POTABLE WATER		NT WATER CONSUMPTION	
NT SPACE RATIONS		CONTACT DERMATITIS	
Food packages for Space Shuttle [ASME PAPER 78-ENAS-13]		Allergy to lanolin [BLL-RTS-11185]	p0142 N79-18570
Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research [NASA-CR-158846]		Uncommon hypersensitivity to contacting cold water and cold air with propagated reflex-like erythema development [BLL-RTS-11644]	p0279 N79-30917

CONTACT LENSES

SUBJECT INDEX

CONTACT LENSES

Aeromedical implications of the X-Chrom lens for improving color vision deficiencies p0135 A79-27556

CONTAMINANTS

NT TRACE CONTAMINANTS

Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720

Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524

Evaluation of toxic effects of organic contaminants in recycled water [PB-291379/6] p0190 N79-22760

Chemicals identified in human biological media, a pilot literature survey [PB-290690/7] p0210 N79-24649

Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897

CONTAMINATION

NT SPACECRAFT CONTAMINATION

CONTENT

NT BONE MINERAL CONTENT

CONTINUITY

Perception of continuity in stroboscopic motion - A temporal frequency analysis p0186 A79-34375

CONTOURS

Texture contours can facilitate stereopsis by initiating vergence eye movements p0270 A79-48816

Contour detector and data acquisition system for the left ventricular outline [NASA-CASE-ARC-10985-1] p0017 N79-10724

CONTRACTION

Cardio-pulmonary response to shock [AD-A065672] p0196 N79-23659

Recruitment and discharge properties of motor units in human brachial biceps and adductor pollicis during isometric contractions p0216 N79-25708

CONT

NT IMAGE CONTRAST

CONTROL

The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776

Flight prototype CO₂ and humidity control system [NASA-CR-160224] p0222 N79-25760

CONTROL CONFIGURED VEHICLES

A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system [AD-A070912] p0309 N79-32841

CONTROL DEVICES

U CONTROL EQUIPMENT

CONTROL EQUIPMENT

NT CONTROL STICKS

NT TELEOPERATORS

Instrumentation for controlling and monitoring environmental control and life support systems [ASME PAPER 78-ENAS-40] p0009 A79-12587

Anthropology in Spacelab - Control and display system in Spacelab [DGLR PAPER 78-151] p0042 A79-14096

Increasing pilot's performance capacity during flight through use of a control element serving as information carrier [DGLR PAPER 78-152] p0042 A79-14097

Object-handling system for manual industry p0101 A79-23464

Control systems for robots and manipulators --- Russian book p0134 A79-27303

Flight experience with manually controlled unconventional aircraft motions p0088 N79-15602

The determination of the operating range of a twin-grip control yoke through biomechanical means p0089 N79-15609

Human/computer control of undersea teleoperators p0089 N79-15612

Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552

Advanced industrial robot control systems [PB-287273/7] p0113 N79-16558

Microprocessor: Based prosthetic control [PB-286652/3] p0113 N79-16559

Flight prototype CO₂ and humidity control system [NASA-CR-160224] p0222 N79-25760

A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system [AD-A070912] p0309 N79-32841

CONTROL SIMULATION

Simulation study on time series of heart responses p0037 A79-13197

A computer-based simulator simulator --- computer-assisted pilot training p0039 A79-13215

The multiloop concept of the pilot work load as a basis of future experiments and studies [ONERA, TP NO. 1978-10] p0045 A79-14795

Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery p0046 A79-14969

The human operator in the control system: Linear models --- German book p0132 A79-26356

Modeling human tracking performance in a high G-stress environment p0269 A79-48012

Pilot workload during final approach in congested airspace p0269 A79-48014

Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions p0117 N79-17493

The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving [IZF-1978-16-PR-1] p0145 N79-18588

Helmet weight simulator [NASA-CASE-LAR-12320-1] p0223 N79-25761

Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters [BMVG-FBWT-78-18] p0282 N79-30944

CONTROL STICKS

Influences of joystick spring resistance on the execution of simple and complex positioning movements p0119 N79-17517

CONTROL SYSTEMS

U CONTROL

CONTROL THEORY

A model for sensorimotor control and learning p0005 A79-12122

Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972

Control of robot manipulators from the modeling of their dynamics --- French thesis p0101 A79-23427

Control theory and biosystems: Analysis of homeostatic properties --- Russian book p0186 A79-34506

Stabilization of a biped walking machine with incomplete information on its phase coordinates p0273 A79-49879

Proceedings, 13th Annual Conference on Manual Control [NASA-CR-158107] p0114 N79-17475

The effects of deviate internal representations in the optimal model of the human operator p0114 N79-17477

A quasi-linear control theory analysis of timesharing skills p0115 N79-17479

A dual-loop model of the human controller p0115 N79-17480

Parameter estimation in a human operator describing function model for a two-dimensional tracking task p0115 N79-17481

An approach to the multi-axis problem in manual control --- optimal pilot model p0115 N79-17482

Error rate information in attention allocation pilot models p0115 N79-17483

The effects of participatory mode and task workload on the detection of dynamic system p0115 N79-17484

- failures p0116 N79-17487
- A control theoretic model of driver steering behavior p0116 N79-17491
- Modelling the human operator of slowly responding systems using linear models p0117 N79-17492
- A model of the human supervisor p0117 N79-17495
- Prediction of pilot-aircraft stability boundaries and performance contours p0118 N79-17507
- Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
- The systemic principles of building a man-machine control staff --- functional analysis p0249 N79-27861
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- CONTROL VALVES**
- Microbial Check Valve for Shuttle [ASME PAPER 78-ENAS-27] p0008 A79-12576
- CONTROLLABILITY**
- Quantifying operator preference during human factors test and evaluation --- in helicopter design p0062 A79-18202
- CONTROLLED ATMOSPHERES**
- NT ARGON-OXYGEN ATMOSPHERES
- NT CABIN ATMOSPHERES
- NT HELIUM-OXYGEN ATMOSPHERES
- NT SPACECRAFT CABIN ATMOSPHERES
- Voice communication in artificial atmospheres --- Russian book p0048 A79-16500
- The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- CONTROLLED STABILITY**
- U CONTROL
- CONTROLLERS**
- NT SERVOMECHANISMS
- Evaluation of models describing human operator control of slowly responding complex systems --- Thesis p0167 A79-31494
- CONVAIR MILITARY AIRCRAFT**
- U MILITARY AIRCRAFT
- CONVECTION**
- Mathematical studies of oxygen transport to tissue p0170 N79-20723
- CONVECTIVE FLOW**
- Convective control of long-range coherence in plant growth regulation p0006 A79-12515
- CONVERGENCE**
- Region extraction using convergent evidence [AD-A061591] p0124 N79-17552
- CONVULSIONS**
- Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain p0162 A79-29925
- The control and prevention of seizures in children, a developmental and environmental approach p0094 N79-15892
- COOLING**
- NT LIQUID COOLING
- NT SURFACE COOLING
- Epidysis of rats under the combined action of hypoxia, hypercapnia and cooling p0256 A79-46680
- COORDINATE SYSTEMS**
- U COORDINATES
- COORDINATES**
- Anatomical coordinate systems for human body segments p0065 A79-18231
- COORDINATION**
- Process of search control of coordinated movement in man p0166 A79-30701
- COPILOTS**
- U AIRCRAFT PILOTS
- COPPER**
- NT COPPER ISOTOPES
- Cu-content of the liver of young mice in relation to a defect in the Cu-metabolism [IRI-133-77-02] p0239 N79-26764
- COPPER COMPOUNDS**
- Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
- Citric acid enhancement of copper sulfate toxicity to the blue-green algae "aphanizomenon flos-aquae" and "microcystis aeruginosa" [PB-291637/7] p0189 N79-22751
- COPPER ISOTOPES**
- Results of a 64Cu-loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04] p0240 N79-26774
- The oral 64Cu-loading test: Applications and problems [IRI-133-78-02] p0240 N79-26775
- CORIOLIS EFFECT**
- Voluntary movement control and adaptation to cross-coupled stimulation --- motion sickness avoidance p0009 A79-12860
- CORNEA**
- Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength --- corneal damage p0002 A79-10648
- CORONARY ARTERY DISEASE**
- Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression p0186 A79-34284
- Coronary calcification in the diagnosis of coronary artery disease p0226-A79-40465
- Computer quantitation of coronary angiograms p0293 A79-51030
- The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement p0028 N79-11703
- Coronary atherosclerosis and fitness for flying p0029 N79-11711
- Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715
- The impact of coronary vascular risk factors on professional aircrew license loss in the United Kingdom p0031 N79-11724
- The effect of moderate hypothermia on the circulatory and myocardial consequences of acute coronary ligation in dogs p0049 N79-12683
- Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582
- CORONARY CIRCULATION**
- Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
- Influences of physical conditioning and deconditioning on coronary vasculature of dogs p0067 A79-18955
- Effect of exercise on collateral development in dogs with normal coronary arteries p0067 A79-18960
- Pulmonary blood volume and interventricular circulation time in physically trained and untrained subjects p0128 A79-24700
- Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728
- Neural regulation of coronary circulation p0208 A79-38148
- Norepinephrine action on smooth muscle cells of coronary arteries

CORPUSCULAR RADIATION

SUBJECT INDEX

- A catheter flow probe for measurement of left ventricular source parameters p0208 A79-38149
 Clinical usefulness of radiopaque markers in left ventricular function p0274 A79-50108
 Mechanics of blood flow through normal and stenotic coronary arteries p0293 A79-51029
 Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart p0154 N79-19676
 Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart p0239 N79-26766
 Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes p0239 N79-26767
 p0307 N79-32825
- CORPUSCULAR RADIATION**
- NT BETA PARTICLES
 - CORRELATION
 - NT DATA CORRELATION
 - NT SIGNAL ANALYSIS
 - CORSAIR AIRCRAFT
 - J A-7 AIRCRAFT
 - CORTICOSTEROIDS
 - NT ALDOSTERONE
 - Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
 - Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects p0297 A79-52023
 - Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
 - Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
- COSMIC RADIATION**
- U COSMIC RAYS
 - COSMIC RAYS
 - Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
 - Biological study of tobacco seeds flown in the joint Apollo-Soyuz test-project p0006 A79-12519
 - Genetic effects of balloon flight in Drosophila melanogaster p0006 A79-12520
 - Light flashes in space --- cosmic ray interaction with astronaut visual system p0100 A79-22261
 - Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
 - Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
 - Preliminary results of Cytos experiment flows in Salyut VI - Investigations of Paramecium aurelia p0229 A79-41709
 - The dose rate of cosmic ray radiation received by a biological target in the stratosphere and at altitudes of satellite orbits p0233 A79-42623
 - Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
 - Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- COSMOLOGY**
- U COSMOLOGY
 - COSMOLOGY
 - Lifecloud: The origin of life in the universe --- Book p0061 A79-17123
- A review of recent concepts of the problem of the origin of life p0221 A79-36041
- COSMONAUTS**
- Preliminary selection of candidates for space flights [IAF PAPER 79-83] p0302 A79-53289
 - Psychological training - One of the most important factors of enhancing the safety of space flights [IAF PAPER 79-A-24] p0303 A79-53426
 - Physiologic/hygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53486
 - The cosmonaut in flight [NASA-TT-R-17438] p0032 N79-11729
 - Salyut-6--Soyuz-29: Our commentary, the crew and the station [NASA-TM-75393] p0174 N79-20745
 - Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station p0244 N79-27820
- COSMOS SATELLITES**
- NT INTERCOSMOS SATELLITES
 - The joint US-USSR biological satellite program p0182 A79-33050
 - US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-70526] p0023 N79-11671
 - The Cosmos 936 mission p0023 N79-11672
 - Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206 p0023 N79-11677
 - Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite --- effects of space flight stress p0192 N79-23631
- COSMOS 782 SATELLITE**
- Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
 - Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782 p0101 A79-23468
 - Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782 p0230 A79-41714
 - US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525] p0020 N79-11651
 - US experiments flown on COSMOS 782 p0020 N79-11652
 - Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue --- COSMOS 782 p0020 N79-11653
 - Responses of crown gall tissue to the space environment: Tumor development and anatomy --- cosmos 782 p0020 N79-11654
 - Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782 p0020 N79-11655
 - Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782 p0020 N79-11656
 - The morphogenetic responses of cultured totipotent cells of carrot (*Daucus carota L.*) at zero gravity --- cosmos 782 p0021 N79-11657
 - Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104 p0021 N79-11659
 - Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
 - Effect of space flight on cell-mediated immunity --- COSMOS 782 satellite p0021 N79-11661
 - Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
 - Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 1: Endochondral osteogenesis; medullary bone turnover p0021 N79-11663

Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment	p0022 N79-11665	[PB-286153/2] Whole body response research program. Appendix C: Processed data [PB-286154/0]	p0094 N79-15642
Quantitative analysis of selected bone parameters	p0022 N79-11666	Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins	p0094 N79-15643
Cosmic ray effects on the eyes of rats flown on COSMOS 782	p0022 N79-11667	CRASH LANDING An inflatable restraint system --- for helicopter crash protection	p0287 N79-31925
Effects of weightlessness on the embryonic development and aging of Drosophila	p0022 N79-11669	CRASHES NT CRASH LANDING Test and evaluation of head restraints, seat backs, and anchorages in vehicles subjected to rear impact collision [PB-289779/1]	p0044 A79-14408
Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite	p0311 N79-33796	Evaluation of research on surrogates for humans in motor vehicle crashes [PB-291012/3]	p0178 N79-21773
COSMOS 936 SATELLITE		The use of mathematical modeling in crashworthy helicopter seating systems	p0178 N79-21774
Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays	p0127 A79-24632	CREW PROCEDURES (INFLIGHT) Spacelab's payload specialists, their selection and duties on-board	p0287 N79-31923
Biological experiments carried out aboard the biological satellite Cosmos-936	p0230 A79-41717	CREWS NT FLIGHT CREWS NT SPACECREWS	p0226 A79-40720
Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite	p0299 A79-52475	CRITERIA Criteria for maximum tolerable heat stress. A proposal [IZP-1978-13]	p0149 N79-18583
COST ANALYSIS		CRITICAL FLICKER FUSION Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance	p0235 A79-43210
USAF life support equipment costs	p0043 A79-14402	Enchantment of luminance flicker by color-opponent mechanisms	p0252 A79-44582
Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics	p0064 A79-18217	The peripheral critical flicker frequency	p0271 A79-49482
Cost analysis of pilot training systems [SAE PAPER 781005]	p0130 A79-25887	CROP GROWTH The impact of sulfur dioxide on vegetation: A sulfur dioxide-ozone response model [PB-283604/7]	p0148 N79-19595
COST EFFECTIVENESS		Selected examples of dispersal of arthropods associated with agricultural crop and animal production	p0049 N79-12686
AWAVS, a research facility for defining flight trainer visual system requirements	p0062 A79-18207	CRYOGENIC EQUIPMENT System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1]	p0013 N79-10694
Simulator Training Requirements and Effectiveness Study /STRES/	p0063 A79-18216	CRYSTAL GROWTH The growth of single crystals from proteins in gravity-free space [AIAA PAPER 79-0311]	p0069 A79-19665
COST REDUCTION		CRYSTALS NT LIQUID CRYSTALS NT SINGLE CRYSTALS Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611]	p0175 N79-21744
Very-large-scale integration - What it means for technical systems and humans	p0181 A79-32640	CUES Use of the optimal control model in the design of motion cue experiments	p0118 N79-17510
COUNTERS		A model for the pilot's use of motion cues in roll-axis tracking tasks	p0118 N79-17512
Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-H9]	p0124 N79-17556	Manual control of yaw motion with combined visual and vestibular cues	p0119 N79-17513
COUPLINGS		Motion cue effects on human pilot dynamics in manual control.	p0119 N79-17514
Prosthesis coupling [NASA-CASE-KSC-11069-1]	p0240 N79-26772	Motion cue models for pilot-vehicle analysis [AD-A061477]	p0125 N79-17561
COVERALLS		Helmet weight simulator [NASA-CASE-LAR-12320-1]	p0223 N79-25761
Development of the CWU-48/P high temperature resistant aramid knit flyer's coverall [AD-A059128]	p0059 N79-13716	CULTIVATION Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration	p0229 A79-41704
CRACKING (CHEMICAL ENGINEERING)		Purification and cultivation of human pituitary growth hormone secreting cells	
NT PYROLYSIS			
CRASH INJURIES			
Various modeling approaches in biomechanics --- analog simulation of impact events	p0005 A79-12407		
SPH-4 helmet damage and head injury correlation	p0127 A79-24633		
Head acceleration and psychomotor performance --- related to crash accident survival rates	p0135 A79-27559		
Spinal injury pattern due to ejections	p0272 A79-49734		
Passive resistive torques about long bone axes of major human joints	p0298 A79-52283		
Analysis of naval aviation head and neck injuries (1969-1978)	p0026 N79-11689		
[AD-A057657]			
Whole body response research program [PB-286151/6]	p0093 N79-15640		
Whole body response research program. Appendix A: Methodology [PB-286152/4]	p0094 N79-15641		
Whole body response research program. Appendix B: Raw data			

[NASA-CR-151853] p0051 N79-12697
 Purification of guinea pig macrophage for
 electrophoretic experiments in space
 [NASA-CR-158777] p0243 N79-27814

CULTURE TECHNIQUES
 Attachment to autoclaved soil of bacterial cells
 from pure cultures of soil isolates p0297 A79-51701
 Purification and cultivation of human pituitary
 growth hormone secreting cells p0219 N79-25736
 Study of pharmaceutical industrial problems
 [NASA-CR-160267] p0248 N79-27852

CURES
 Aspects of dietary prevention of arteriosclerosis p0262 N79-29792

CURRENT CONVERTERS (AC TO DC)
 Development of an electrical energy converter for
 circulatory device [PB-286738/0] p0111 N79-16545

CURRENT REGULATORS
 Development of an electrical energy converter for
 circulatory device [PB-286738/0] p0111 N79-16545

CURRENT STABILIZERS
 U CURRENT REGULATORS

CURTIS WRIGHT MILITARY AIRCRAFT
 U MILITARY AIRCRAFT

CURVE FITTING
 A numerical method of film analysis with
 differentiation --- curve fitting with harmonic
 analysis p0061 A79-17585

CURVED SURFACES
 U CONTOURS

CYANAMIDES
 Prebiotic nucleotide oligomerization in a
 fluctuating environment - Effects of kaolinite
 and cyanamide p0162 A79-29938
 Prebiotic condensation reactions using cyanamide p0203 A79-37932

CYANIDES
 The effects of carbon monoxide and cyanide on the
 brain p0024 N79-11682
 The effects of the pollutant, sodium cyanide, on
 the morphology and physiology of oedogonium
 cardiacum p0147 N79-19028

CYANO COMPOUNDS
 NT CYANAMIDES

CYANOPHYTA
 U BLUE GREEN ALGAE

CYBERNETICS
 Elements of the theory of biological analyzers ---
 Russian book p0132 A79-26450
 Cat driving as a cybernetic task [IZF-1979-6] p0309 N79-32838

CYCLES
 NT WORK-REST CYCLE

CYSTS
 Coupling apparatus for ultrasonic medical
 diagnostic system [NASA-CASE-NPO-13935-1] p0077 N79-14751

CYTOCHROMES
 Evolution of early life inferred from protein and
 ribonucleic acid sequences p0206 A79-37980

CYTOGENESIS
 Evolutionary relationship based on a biochemical
 study of energy-acquiring system between
 Nitrosomonas europaea and Thiebacillus novellus p0205 A79-37966
 Evolution of transfer RNA p0206 A79-37975

CYTOTOLOGY
 The effect of plasmoidal slime on the metabolism
 of haploid cells of Physarum flavicomum and the
 respiration of isolated mitochondria p0105 A79-24513
 Energy transduction in Halobacterium halobium p0300 A79-53000
 Development and application of resistive pulse
 spectroscopy: Studies on the size, form and
 deformability of red blood cells [LBL-8640] p0280 N79-30924

CYTOSMALL
 Senescent changes in the ribosomes of animal cells
 in vivo and in vitro p0134 A79-27226

CYTOSMALL
 Senescent changes in the ribosomes of animal cells
 in vivo and in vitro p0134 A79-27226

D

DAEMO (DATA ANALYSIS)
 U DATA PROCESSING
 U DATA REDUCTION
 U DATA TRANSMISSION

DAMAGE
 NT FIRE DAMAGE
 NT IMPACT DAMAGE
 NT LASER DAMAGE
 NT RADIATION DAMAGE

DAMPING IN PITCH
 U PITCH (INCLINATION)

DAMPING IN ROLL
 U ROLL

DAMPING IN YAW
 U YAW

DAMPNESS
 U MOISTURE CONTENT

DARK ADAPTATION
 Primate cone sensitivity to flicker during light
 and dark adaptation as indicated by the foveal
 local electroretinogram p0104 A79-24065
 The equivalent background and retinal eccentricity
 p0104 A79-24066

Evidence for the equivalent-background hypothesis
 in cones --- for dark adaptation thresholds
 p0232 A79-42233

Changes in critical duration during dark-adaptation
 p0304 A79-54252

Influence of light adaptation on dark adaptation
 time for pattern recognition tasks
 [FB-31] p0316 N79-33835

DATA ACQUISITION
 Contour detector and data acquisition system for
 the left ventricular outline [NASA-CASE-ARC-10985-1] p0017 N79-10724
 Aircrew inflight physiological data acquisition
 system 2 [AD-A055638] p0055 N79-13690
 RNAV procedural turn anticipation techniques
 experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi
 offset tracking procedures [AD-A060501] p0085 N79-15583
 Strategic and tactical use of movement information
 in pest management p0148 N79-19597

Regional program for acquisition of medical
 experiments [NASA-CR-160121] p0155 N79-19677
 Aircrew modularized inflight data acquisition system
 [AD-A064725] p0190 N79-22766

Improvements in the man-machine interface for data
 acquisition, display and control p0224 N79-25983

The information in aircraft accidents investigation
 p0291 N79-31947

DATA ADAPTIVE EVALUATOR/MONITOR
 U DATA PROCESSING
 U DATA REDUCTION
 U DATA TRANSMISSION

DATA ANALYSIS
 U DATA PROCESSING
 U DATA REDUCTION

DATA BASES
 Human factors design criteria for transilluminated
 displays p0036 A79-13187

DATA COMPACTION
 U DATA COMPRESSION

DATA COMPRESSION
 Digital color image compression in a perceptual
 space p0136 A79-28013

DATA CONVERSION ROUTINES
 NT SUBROUTINES

DATA CORRELATION
 NT SIGNAL ANALYSIS

The development of the ATC selection battery: A
 new procedure to make maximum use of available
 information when correcting correlations for
 restriction in range due to selection
 [PAA-AM-78-36] N79-25752

- DATA HANDLING SYSTEMS**
- U DATA SYSTEMS**
 - DATA PROCESSING**
 - NT DATA CORRELATION
 - NT DATA REDUCTION
 - NT SCENE ANALYSIS
 - NT SIGNAL ANALYSIS
 - NT SIGNAL PROCESSING
 - A study of noninvasive blood pressure measurement techniques p0294 A79-51036
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 51 [JPRS-72588] p0076 N79-14745
- Visual information processing p0076 N79-14747
- Information-handling capacity of a human operator in detection of signals against a noisy background p0081 N79-14989
- Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582
- Bandpass channels, zero-crossings, and early visual information processing [AD-A062338] p0170 N79-20724
- User's guide for the Skylab integrated medical data analysis system [NASA-CR-160189] p0220 N79-25740
- Human processing of information and the computerized mode of presentation: Ergonomic parameters [FOA-C-56018-H9] p0263 N79-29797
- DATA PROCESSING EQUIPMENT**
- NT AIRBORNE/SPACEBORNE COMPUTERS
 - NT COMPUTERS
 - NT DATA PROCESSING TERMINALS
 - NT HYBRID COMPUTERS
 - NT MICROPROCESSORS
 - Event-driven displays for manipulator control p0089 N79-15610
- DATA PROCESSING TERMINALS**
- Man/terminal interaction evaluation of computer operating system command and control service concepts --- in Spacelab p0064 A79-18224
 - Physical and mental working environment in a terminal based computer system [BLL-RTS-11634] p0197 N79-23665
 - MMI, a man - machine interface: A contribution towards a standard [NPL-CSW-2/78] p0197 N79-23669
- DATA PROCESSORS**
- U DATA PROCESSING EQUIPMENT
 - DATA READOUT SYSTEMS
 - U DATA SYSTEMS
 - U DISPLAY DEVICES
- DATA REDUCTION**
- Experimental designs for investigating complex human operator/machine systems p0040 A79-13225
 - TADRAP: A computer-aided technique for reducing aircrew task analysis data --- helicopter design considering human factors p0150 N79-19628
 - A method for semi-automatic analysis of eye movements [DLR-MITT-79-02] p0283 N79-30946
 - Preference parameters for shock inputs and shock tolerance limits p0284 N79-31905
- DATA SYSTEMS**
- Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control p0061 A79-17695
- DATA TRANSMISSION**
- Single frequency RF powered ECG telemetry system p0131 A79-26074
 - Information transmission during eye movements p0209 A79-38360
 - Attempt to describe a class of man-machine dialogue systems based on a natural language p0251 A79-44057
 - Event-driven displays for manipulator control p0089 N79-15610
- DATING**
- U TIME MEASUREMENT
- DEACTIVATION**
- Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components [NASA-CP-158627] p0197 N79-25705
- DEAFNESS**
- U AUDITORY DEFECTS
- DECARBOXYLATION**
- In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400
- DECAY**
- NT CHEMILUMINESCENCE
 - NT FLUORESCENCE
 - NT MICROWAVE EMISSION
 - NT RADIO EMISSION
 - NT WEAK ENERGY INTERACTIONS
- DECISION MAKING**
- Communications management by the remote system - An adaptive approach --- modeling of RPV autopilot/operator systems p0041 A79-13226
 - Human engineering study of information processing applicable to helmet-mounted displays p0068 A79-18994
 - A model of human decisionmaking in fault diagnosis tasks that include feedback and redundancy p0163 A79-30222
 - Man and automation --- for human-automatic pilot interfaces p0275 A79-50372
 - Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
 - Use of reward-penalty structures in human experimentation p0089 N79-15607
 - The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
 - A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
 - A model of human event detection in multiple process monitoring situations p0092 N79-15632
 - Pilot decision making in a computer-aided flight management situation p0093 N79-15633
 - A decision, monitoring and control model of the human operator applied to an RPV control problem [AD-A069880] p0282 N79-30939
 - Adaptive estimation of information values in continuous decision making and control of advanced aircraft [AD-A069741] p0282 N79-30941
 - Effects of amphetamine on response selection and response execution processes in choice reaction tasks [IZF-1978-8] p0309 N79-32839
- DECISION THEORY**
- Applications of two-parameter decision theories in psychology [AD-A059010] p0052 N79-12705
 - Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2 [PB-288320/5] p0145 N79-18586
- DECOMPOSITION**
- NT PHOTOLYSIS
 - Observability of electrical heart activity studied with singular value decomposition [TH-78-E-81] p0144 N79-18584
- DECOMPRESSION**
- U PRESSURE REDUCTION
 - DECOMPRESSION SICKNESS**
 - Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving p0010 A79-12866
 - Case report - Intracardial gas bubbles in relation to altitude decompression chokes p0011 A79-12871
 - Detection of bubbles in decompression sickness p0041 A79-13573
 - Effect of decompression per se on nitrogen elimination p0067 A79-18964

Application of a bubble formation model to decompression sickness in rats and humans	[NASA-CR-158846]	p0260 N79-28880
Mechanical vs. ischemic mechanisms for decompression sickness	DEHYDRATION	p0102 A79-23473
Doppler detection of thresholds for decompression-induced venous gas emboli in the awake rat	Prebiotic condensation reactions using cyanamide	p0164 A79-30656
Scanning and transmission electron microscopy of the blood-bubble interface in decompressed rats	Heat and acute dehydration effects on acceleration response	p0202 A79-37707
Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice	Specialized physiological studies in support of manned space flight	p0266 A79-47333
Dynamics of the catalase activity of the blood of athletes under the influence of local decompression	[NASA-CR-151876]	p0268 A79-47855
Investigation of blood subjected to volume tension	The effects of dehydration on peripheral cooling	p0271 A79-49699
Effects of endogenous factors on the process of gas bubble formation in the body related to decompression	[AD-A065332]	p0275 A79-50261
Applied analysis of computer simulated decompression profiles	DEKATRONS	p0015 N79-10713
Early diagnosis for decompression sickness. Changes in the blood found shortly after decompression. Part 2: Experiments on rats [MBL-1978-7]	U COUNTERS	p0017 N79-10722
Hyperbaric decompression by means of bubble detection [AD-A062441]	DELPHI METHOD (FORECASTING)	p0120 N79-17524
Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute [DLR-FB-78-10]	Human health damages from mobile source air pollution: A delphi method, volume 1	p0171 N79-20726
Fundamental biophysical aspects of decompression sickness [AD-A06998]	[PB-288319/7]	p0280 N79-30925
DECONDITONING	Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2	p0145 N79-18585
Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness	DEMAND (ECONOMICS)	[PB-288320/5]
Deconditioning-induced exercise responses as influenced by heat acclimation	Energy supply and demand in California	p0145 N79-18586
DECONGESTANTS	DEMINERALIZING	p0242 N79-27603
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances	NT BONE DEMINERALIZATION	
Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance	DEMODULATION	
DECONTAMINATION	The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil	p0210 A79-39974
NT SPACECRAFT STERILIZATION	DEMONSTRATION	
Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation	U PROVING	
DEFECTS	DENSITY (MASS/VOLUME)	
NT AUDITORY DEFECTS	NT GAS DENSITY	
DEPLATING	DEOXYRIBONUCLEIC ACID	
U INFLATABLE STRUCTURES	Possible contribution of transferable exogenous DNA in prokaryotic evolution	
U PRESSURE REDUCTION	p0205 A79-37971	
DEGRADATION	Subcellular organisms and evolution of cell structure	
NT BIODEGRADATION	Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite	p0206 A79-37978
NT THERMAL DEGRADATION	Mechanisms of recombination and function of DNA in bacteria	
Mechanisms of activated carbon degradation by perspiration [AD-A059872]	[ORO-3941-33]	p0014 N79-10702
DEGREES OF FREEDOM	DNA content of animal organs during space flight on Kosmos-690 satellite	p0072 N79-14715
The development of a six degree-of-constraint robot performance evaluation test	Microwave frequencies and the structure of the double helix	p0073 N79-14728
DEHYDRATED FOOD	The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells	p0082 N79-15559
Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research	Effects of gravity on contractile proteins [NASA-CR-160303]	p0141 N79-18558
DESENT	Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite	p0279 N79-30913
NT PARACHUTE DESCENT	p0311 N79-33796	
DESIGN ANALYSIS	DEPENDENCE	
Anthropometry in sizing and design	NT TIME DEPENDENCE	
	DEPRESSANTS	
	Isolation of a shock-induced circulating cardiodepressant substance	p0257 A79-46967
DEPRESSURIZATION	DEPRIVATION	
U PRESSURE REDUCTION	NT SENSORY DEPRIVATION	
DEPRIVATION	NT SLEEP DEPRIVATION	
NT BIODEGRADATION	DEPTH PERCEPTION	
NT THERMAL DEGRADATION	U SPACE PERCEPTION	
Mechanisms of activated carbon degradation by perspiration [AD-A059872]	DERMATITIS	
DESATURANT	NT CONTACT DERMATITIS	
Control by episome on salt-resistance in bacteria	DESALINIZATION	
	DESCENT	
	NT PARACHUTE DESCENT	
	DESIGN ANALYSIS	
	Anthropometry in sizing and design	p0033 N79-11742

DESIGN OF EXPERIMENTS	
J EXPERIMENTAL DESIGN	
Trace contaminant studies of RSC adsorbent [NASA-CR-160148]	p0177 N79-21769
DESYNCHRONIZED SLEEP	
J RAPID EYE MOVEMENT STATE	
DETECTION	
NT AIRCRAFT DETECTION	
NT RADAR DETECTION	
NT SIGNAL DETECTION	
NT TARGET RECOGNITION	
Detection of coloured stimuli by independent linear systems	p0231 A79-42229
DETERIORATION	
Mechanisms of deterioration of nutrients --- improved quality of freeze-dried foods [NASA-CR-160128]	p0156 N79-19686
DEVELOPMENT	
Orthomolecular enhancement of human development	p0095 N79-15895
DEWAR SYSTEMS	
J CRYOGENIC EQUIPMENT	
DIABETES MELLITUS	
Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C14/-0-glucose in diabetic rats	p0252 A79-44797
DIAGNOSIS	
Detection of bubbles in decompression sickness	p0041 A79-13573
Diagnostics of initial deficiency in cerebral circulation	p0166 A79-31164
Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases	p0188 A79-35136
Myocardial infarction in young men	p0188 A79-35137
Motion sickness in cats - A symptom rating scale used in laboratory and flight tests	p0202 A79-37711
Coronary calcification in the diagnosis of coronary artery disease	p0226 A79-40465
Hyperventilation in aircrew - A review	p0235 A79-43212
Portable device for detection of petit mal epilepsy	p0254 A79-46226
Computerized positron emission tomography /PET/ for the assessment of myocardial integrity	p0293 A79-51031
Signal processing in ultrasound --- for diagnostic medicine	p0294 A79-51039
Clinical applications of new echocardiographic techniques	p0295 A79-51040
An illness-injury severity index	p0050 N79-12688
Noninvasive assessment of pulmonary hypertension using bubble ultrasonic ringing (BURP) method, part 2	[PB-283935/5] p0051 N79-12699
Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease	[PB-284686/3] p0052 N79-12703
Noninvasive assessment of pulmonary hypertension	[PB-285121/0] p0057 N79-13701
Coupling apparatus for ultrasonic medical diagnostic system	[NASA-CASE-NPO-13935-1] p0077 N79-14751
Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease	[PB-286696/0] p0085 N79-15581
Early detection of disease: The correlation of the volatile organic profiles from patients with upper respiratory infections with subjects of normal profiles	[NASA-CR-160100] p0121 N79-17532
Technical evaluation report on the Aerospace Medical Panel London Specialists' Meeting, Fall 1977 --- disease prevention, flight fitness, and findings in cardiology and pulmonary function	[AGARD-AR-131] p0171 N79-20729
DIFFERENTIAL ALGEBRA	
U MATRICES (MATHEMATICS)	
DIFFRACTION	
NT WAVE DIFFRACTION	
DIFFRACTION GRATINGS	
U GRATINGS (SPECTRA)	
DIFFRACTION PATTERNS	
The retinal resolving power measured by laser	
Prospective medicine opportunities in aerospace medicine	p0171 N79-20730
A systematic approach to computer analysis of pulmonary vascular patterns	p0176 N79-21756
ESR studies on different pathological states	[ISS-L-22/9] p0248 N79-27854
Computed axial tomography (CAT)	[ISS-R-78/4] p0262 N79-29791
Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis	[NASA-CR-162103] p0279 N79-30922
DIAGRAMS	
NT CIRCUIT DIAGRAMS	
DIALYSIS	
A compact low-volume, self-regenerating artificial kidney	[PB-287808/0] p0123 N79-17545
DIAPHRAGM (ANATOMY)	
Contribution of rib cage and abdomen-diaphragm to tidal volume during CO ₂ rebreathing	p0135 A79-33805
Carbohydrate metabolism of the stimulated diaphragm muscle	
DIASTOLIC PRESSURE	
A study of some of the factors influencing the left ventricular diastolic pressure-volume relationship and myocardial metabolism	p0050 N79-12689
DIIELECTRIC CONSTANT	
U PERMITTIVITY	
DIIELECTRIC MATERIALS	
U DIELECTRICS	
DIIELECTRIC PROPERTIES	
NT PERMITTIVITY	
Molecular absorption of non-ionizing radiation in biological systems	p0082 N79-15553
Interfacial and intracellular water: Expected anomalies in dielectric properties	p0082 N79-15558
DIELECTRICS	
Electric field measurements within biological media	p0083 N79-15562
DIESEL FUELS	
A literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it	[AD-A056018] p0025 N79-11686
A literature review-problem definition studies on selected toxic chemicals. Volume 8: Environmental aspects of diesel fuel and fog oils SGF number 1 and SGF number 2 and smoke screens generated from them	[AD-A056021] p0025 N79-11688
Health effects associated with diesel exhaust emissions, literature review and evaluation	[PB-289817/9] p0171 N79-20727
DIETS	
Effects of dietary composition on nutritional state in rats during exposure to high altitude	p0134 A79-27118
Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart	p0239 N79-26766
Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart	p0239 N79-26767
Effects of dietary fats on atherosclerosis and thrombosis	p0240 N79-26776
Physiological effects of a high soybean protein diet in man	p0240 N79-26777
Aspects of dietary prevention of arteriosclerosis	p0262 N79-29792

DIFFUSE RADIATION

SUBJECT INDEX

interference fringes	p0304 A79-54091	space	p0136 A79-28013
DIFFUSE RADIATION		DILUTION	
Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria --- Rayleigh-Gans-Debye	p0233 A79-42448	Fluid shifts during initial phase of immersion diuresis in man	p0185 A79-33804
DIFFUSION		DIMENSIONAL ANALYSIS	
NT GASEOUS DIFFUSION		Visual search for complex targets	p0208 A79-38357
NT IONIC DIFFUSION			
NT MOLECULAR DIFFUSION		DIMENSIONAL MEASUREMENT	
NT PARTICLE DIFFUSION		Anthropometry	p0032 N79-11737
NT TURBULENT DIFFUSION			
A theoretical study of membrane diffusion and lymphocyte patching	p0142 N79-18563	DIMENSIONS	
Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat	p0169 N79-20712	NT LENGTH	
Biological effects of a magnetic field	p0172 N79-20734	DIODES	
		NT LIGHT EMITTING DIODES	
DIFFUSION EFFECT		DIOXIDES	
NT DIFFUSION		NT CARBON DIOXIDE	
DIFLUORO COMPOUNDS		NT SULFUR DIOXIDES	
NT POLYTETRAFLUOROETHYLENE		DIRECT POWER GENERATORS	
DIGESTING		NT THERMOELECTRIC GENERATORS	
Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs	p0312 N79-33803	DIRECTIONAL ANTENNAS	
		NT LOOP ANTENNAS	
DIGESTIVE SYSTEM		DIRECTIVITY	
NT GASTROINTESTINAL SYSTEM		Axiomatic summary and deductions from Hering's principles of visual direction	p0228 A79-41421
NT INTESTINES			
NT STOMACH		DISCRETE FUNCTIONS	
NT TEETH		Discrete time modeling of heavy transport plane pilot behavior	p0118 N79-17508
Information on the comparative physiology of digestive enzymes	p0142 N79-18572		
[BLL-RTS-11203]		DISCRIMINATION	
DIGITAL FILTERS		NT BRIGHTNESS DISCRIMINATION	
The effects of filtering the His-Purkinje system electrocardiogram	p0130 A79-26073	NT SENSORY DISCRIMINATION	
		NT TACTILE DISCRIMINATION	
DIGITAL NAVIGATION		NT VISUAL DISCRIMINATION	
Refinement of a computer simulation model for evaluating DAIS display concepts --- Digital Avionics Information System	p0038 A79-13209	DISEASES	
		NT ARTERIOSCLEROSIS	
DIGITAL RADAR SYSTEMS		NT ATAXIA	
Evolution of the man-machine interface in surveillance radar systems	p0001 A79-10322	NT BONE DEMINERALIZATION	
		NT CANCER	
DIGITAL SIMULATION		NT CARBON MONOXIDE POISONING	
Simulation and control of a human temperature regulation system	p0041 A79-13613	NT CONTACT DERMATITIS	
		NT CORONARY ARTERY DISEASE	
Man-machine reliability - A practical engineering tool	p0047 A79-15400	NT DIABETES MELLITUS	
		NT EDEMA	
Closed loop models for analyzing the effects of simulator characteristics --- digital simulation of human operators	p0087 N79-15598	NT EPILEPSY	
		NT GLAUCOMA	
Discrete-time pilot model --- human dynamics and digital simulation	p0088 N79-15601	NT HEART DISEASES	
		NT INFECTIOUS DISEASES	
User's instructions for the high speed version of the cardiovascular exercise model	p0218 N79-25724	NT MYOCARDIAL INFARCTION	
[NASA-CR-160211]		NT OSTEOPOROSIS	
Combined discrete network: Continuous control modeling of man-machine systems	p0310 N79-32842	NT PULMONARY LESIONS	
[AD-A071574]		NT RADIATION SICKNESS	
DIGITAL SYSTEMS		NT RESPIRATORY DISEASES	
NT DIGITAL NAVIGATION		NT THROMBOSIS	
NT DIGITAL RADAR SYSTEMS		NT TUMORS	
Digital man-machine control systems - The effects of preview lag	p0131 A79-26149	NT ULCERS	
		Disability pattern amongst civil aircrew	
Devices for synchronizing a digital measuring apparatus with biological signals	p0160 A79-29271		p0182 A79-33192
DIGITAL TECHNIQUES		DISORIENTATION	
Digital enhancement of computerized axial tomograms	p0004 A79-11544	The morbidity experience of air traffic control personnel, 1967-1977	
			p0051 N79-12696
The development of a digital video subtraction system for intravenous angiography	p0294 A79-51033	Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease	
			p0052 N79-12703
DIGITAL TELEVISION		DISPERSION	
Digital color image compression in a perceptual		The vestibule and flying --- pilot disorientation	
			p0255 A79-46598
		Disorientation in Royal Naval helicopter pilots	
			p0152 N79-19648
		Geographical disorientation and flight safety	
			p0291 N79-31951
		Human factors in production and prevention of aircraft accidents due to disorientation in flight	
			p0291 N79-31952
		DISPERSIONS	
		Dispersal of forest insects	
			p0148 N79-19596
		NT AEROSOLS	
		NT COLLOIDS	
		NT FOG	
		NT SMOKE	

- Selected examples of dispersal of arthropods associated with agricultural crop and animal production p0148 N79-19595
- Strategic and tactical use of movement information in pest management p0148 N79-19597
- DISPLAY DEVICES**
- NT APPROACH INDICATORS
- NT HEAD-UP DISPLAYS
- NT HOT-PILM ANEMOMETERS
- The robot's eyes - Stereo vision system for automated scene analysis p0004 A79-12006
- Human factors design criteria for transilluminated displays p0036 A79-13187
- Discrimination of density and clustering on four versions of a stochastic display --- human performance of pattern recognition p0036 A79-13192
- Lateral orientation and cerebral activation - Considerations for information display p0037 A79-13194
- Contrast enhancement using local area brightness and gain control --- of airborne CFT display p0037 A79-13199
- Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit p0038 A79-13205
- Refinement of a computer simulation model for evaluating DAIS display concepts --- Digital Avionics Information System p0038 A79-13209
- Four years of color research for visual displays --- human performance consideration for use in aircraft p0039 A79-13210
- Observer performance using a video display --- in simulated air to ground target acquisition tasks p0039 A79-13217
- Anthropology in Spacelab - Control and display system in Spacelab [DGLR PAPER 78-151] p0042 A79-14096
- Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control p0061 A79-17695
- Perception of graphic displays of space p0062 A79-18205
- The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight p0062 A79-18206
- The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing p0063 A79-18210
- An investigation of pictorial and symbolic aircraft displays for landing p0063 A79-18211
- Factors that affect display size criteria in a cockpit display system p0063 A79-18212
- Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
- Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix p0063 A79-18214
- Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218
- Secondary visual workload capability with primary visual and kinesthetic-tactual displays p0064 A79-18220
- Human engineering study of information processing applicable to helmet-mounted displays p0068 A79-18994
- Speed and load stress as determinants of performance in a time sharing task p0068 A79-18999
- A visual simulator with transformation of the perspective in the raster of television pictures --- German book on pilot training systems p0069 A79-19375
- Engineering-psychological study of information imaging systems --- manual control of spaceship docking p0099 A79-21404
- A controller's eye view of color p0102 A79-23596
- Visual acuity with regard to simultaneous colored contrast on a television screen - Results p0103 A79-23952
- Factors controlling the competing sensations produced by a bistable stroboscopic motion display p0104 A79-24067
- Recent developments and plans for pilot training devices [SAE PAPER 781007] p0130 A79-25889
- A binocular stereoscopic display system for echocardiography p0130 A79-26072
- Hyper-resolution in human perception of movement in visual displays p0132 A79-26240
- Object, illusion and frame of reference as design criteria for computer-generated displays p0137 A79-28157
- Digital image anomalies - Static and dynamic --- rastering and aliasing effects and elimination p0137 A79-28158
- Visual system for the Boom Operator Part Task Trainer --- KC-135 aerial refueling task simulator p0137 A79-28162
- Component performance of a 360 deg non-programmed visual display --- laser image flight simulator p0137 A79-28163
- A 25-inch precision color display for simulator visual systems p0137 A79-28164
- Windshield quality and pilot performance measurement utilizing computer-generated imagery p0137 A79-28165
- Training effectiveness versus simulation realism p0138 A79-28166
- Extrapolation of pulsed light data in scanned displays --- laser radiation eye exposure limits p0138 A79-28170
- The holographic Pancake Window --- magnifier for flight simulation display p0138 A79-28172
- Application of Fresnel lenses to virtual image display --- for training simulators p0139 A79-28173
- A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples p0160 A79-28993
- A comparison of kinesthetic-tactual and visual displays via a critical tracking task --- for aircraft control p0162 A79-29720
- Visual contrast sensitivity functions obtained with colored and achromatic gratings p0181 A79-32628
- Application of computer animation for dynamic display in complex energy systems --- for human operator performance improvement p0186 A79-34172
- The development of integrated multidimensional displays p0187 A79-34990
- Regression models of search time for color-coded information displays p0209 A79-38359
- Dynamics of the eye and head during movement between displays - A qualitative and quantitative guide for designers p0209 A79-38362
- Pilot-optimal augmentation of the air-to-air tracking task [AIAA 79-1747] p0252 A79-45388
- Helicopter commands at the touch of a hand [AHS 79-13] p0270 A79-49066
- Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators p0297 A79-52276
- Target redundancy in visual search - Do repetitions of the target within the display impair processing

- Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
- Human factors evaluation of the AN/UVO-21 display console [AD-A056383] p0020 N79-10743
- The effect of active area on the legibility of dot matrix displays [AD-A058014] p0052 N79-12708
- Human factors aspects of low light level television and forward looking infrared sensor displays. I: A feasibility study of scaled subjective complexity of still scenes applied to computer image generation [AD-A058938] p0058 N79-13715
- An extension of the quickened display for manual control p0086 N79-15591
- Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator p0088 N79-15605
- Event-driven displays for manipulator control p0089 N79-15610
- Display aids for remote control of untethered undersea vehicles p0090 N79-15613
- A safety margin and flight reference system and display for powered-lift aircraft p0090 N79-15614
- Evaluation of display and control concepts for a terminal configured vehicle in final approach in a windshear environment p0090 N79-15616
- Two dimensional eye tracking: Sampling rate of forcing function p0090 N79-15617
- The effect of a visual/motion display mismatch in a single axis compensatory tracking task p0118 N79-17511
- Evaluation of kinesthetic-tactual displays using a critical tracking task p0119 N79-17516
- Some ergonomic aspects of adapting workrooms with visual display units to the human possibilities [IZP-1978-1] p0125 N79-17562
- Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] p0144 N79-18580
- Binocular holographic helmet mounted display [AD-A062761] p0174 N79-20749
- Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772
- Effect of optical magnification on the perception of displayed orientation [AD-A065949] p0196 N79-23660
- Physical and mental working environment in a terminal based computer system [BLL-RTS-11634] p0197 N79-23665
- A human engineering specification for legibility of alphanumeric symbology on video monitor displays [AD-A064960] p0197 N79-23667
- Proximity-vision system for protoflight manipulator arm [NASA-CR-158652] p0197 N79-24658
- Improvements in the man-machine interface for data acquisition, display and control p0224 N79-25983
- A photometric and legibility assessment of Aerospace Optics, Incorporated Vivisun 20/20 display [AD-A067668] p0242 N79-26786
- Analysis of visual estimation of system state from arbitrary displays p0317 N79-33843
- DISPLAY SYSTEMS**
- U DISPLAY DEVICES
- DISPOSAL**
- NT WASTE DISPOSAL
- DISSIPATION**
- NT ENERGY DISSIPATION
- DISSOCIATION**
- Thermodynamic studies on the oxygenation and subunit association of human hemoglobin p0142 N79-18576
- DISTANCE**
- NT MISSILE RANGES
- PERCEPTION**
- U SPACE PERCEPTION
- DISTRIBUTION (PROPERTY)**
- NT DIFFRACTION PATTERNS
- NT LOAD DISTRIBUTION (FORCES)
- NT MASS DISTRIBUTION
- NT TEMPERATURE DISTRIBUTION
- NT VELOCITY DISTRIBUTION
- Distribution of bluegreen algae in a Mississippi Gulf Coast salt marsh [PB-288982/2] p0153 N79-19667
- DIURESIS**
- Fluid shifts during initial phase of immersion diuresis in man p0185 A79-33804
- DIURNAL RHYTHMS**
- U CIRCADIAN RHYTHMS
- DIVING (UNDERWATER)**
- Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving p0010 A79-12866
- Personality profiles of divers involved in research activities [DLR-FB-78-11] p0281 N79-30935
- DNA**
- U DEOXYRIBONUCLEIC ACID
- DOCUMENTATION**
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 60 [JPRS-73135] p0175 N79-21745
- DOCUMENTS**
- NT BIBLIOGRAPHIES
- NT HANDBOOKS
- NT PAPERS
- NT USER MANUALS (COMPUTER PROGRAMS)
- Publications of the planetary biology program for 1977: A special bibliography [NASA-TM-80338] p0179 N79-21777
- DOGS**
- Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728
- Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
- DOMINANCE**
- NT EYE DOMINANCE
- DOPPLER EFFECT**
- A sample volume tracking unit for pulsed Doppler echocardiography p0200 A79-36869
- DOSAGE**
- NT RADIATION DOSAGE
- DOSIMETERS**
- Some advances in astronaut radiation dosimetry [IAF PAPER 78-67] p0003 A79-11228
- Electromagnetic fields in biological media. Part 1: Dosimetry - a primer on bioelectromagnetics [PB-285793/6] p0078 N79-14759
- Microwave and RF dosimetry p0083 N79-15561
- A real-world assessment of noise exposure [AD-A061692] p0155 N79-19680
- The design and construction of a miniature dosimeter for the study of the effects of air cavities in radiation therapy p0176 N79-21757
- Review of unfolding methods used in the US and their standardization for dosimetry [BNWL-SA-6503] p0307 N79-32828
- DOSIMETRY**
- U DOSIMETERS
- DOUGLAS MILITARY AIRCRAFT
- U MILITARY AIRCRAFT
- DOVAP
- U DOPPLER EFFECT
- DRINKING**
- Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- Delayed effects of alcohol ingestion on + Gz tolerance p0272 A79-49730
- Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery p0273 A79-49984

- DRONE AIRCRAFT**
 A head-up display for mid-air drone recovery p0090 N79-15615
- DRONE HELICOPTERS**
 U DRONE AIRCRAFT
 J HELICOPTERS
DRONE VEHICLES
 NT DRONE AIRCRAFT
DROPS (LIQUIDS)
 Coacervate drops as a model for precellular structures p0204 A79-37960
 Coacervate drops - Primitive forms of precells p0204 A79-37962
- DROSOPHILA**
 Reproductive adaptation in Drosophila exposed to oxygen-enriched atmospheres p0164 A79-30657
 Effect of hypoxia on the development of Drosophila melanogaster /Meigen/ p0165 A79-30667
 Biological experiments carried out aboard the biological satellite Cosmos-936 p0230 A79-41717
 Quantitative analysis of mating behavior in aging male Drosophila Melanogaster p0252 A79-44799
 Effects of weightlessness on the embryonic development and aging of Drosophila p0022 N79-11670
 Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
- DROWSINESS**
 U SLEEP
DRUG THERAPY
 U CHEMOTHERAPY
DRUGS
 NT ADRENERGICS
 NT ANTIADRENERGICS
 NT ANTIBIOTICS
 NT ANTIHISTAMINICS
 NT ANTINFECTIVS AND ANTIBACTERIALS
 NT ANTIRADIATION DRUGS
 NT DECONGESTANTS
 NT INSULIN
 NT MARIJUANA
 NT MOTION SICKNESS DRUGS
 NT NORADRENALINE
 NT NOREPINEPHRINE
 NT PROMETHAZINE
 Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
- DRY HEAT**
 Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation p0131 A79-26147
- DRYING**
 NT DEHYDRATION
 NT FREEZE DRYING
DUCTS
 Apparatus for supplying conditioned air at a substantially constant temperature and humidity [NASA-CASE-GSC-12191-1] p0156 N79-19688
- DUMMIES**
 A biophysical model for evaluating auxiliary heating and cooling systems --- for protective clothing systems design [ASME PAPER 78-ENAS-33] p0008 A79-12581
 Calibration of three year old child dummies [PB-288961/6] p0157 N79-19692
 Evaluation of research on surrogates for humans in motor vehicle crashes [PB-291012/3] p0178 N79-21774
 Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PB-28951/6] p0179 N79-21776
 Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods p0287 N79-31924
 Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins p0287 N79-31925
- DUNGEYS WIND SHEAR MECHANISM**
 U WIND SHEAR
DURATION
 U TIME
DYES
 Effect of fiber and dye degradation products /FDP/ on burn wound healing p0298 A79-52277
 A porcine bioassay study of the physiological effects of fiber and dye degradation products (FDP) on burn wound healing [AD-A066990] N79-25748
- DYNAMIC CHARACTERISTICS**
 NT AERODYNAMIC STABILITY
 NT AIRCRAFT STABILITY
 NT DYNAMIC STABILITY
 NT FLOW STABILITY
 NT FLOW VELOCITY
 NT HOVERING STABILITY
 NT MOTION STABILITY
 NT TRANSIENT RESPONSE
 Goal-directed mechanics of controlled manipulators --- Russian book p0275 A79-50447
 Dynamical characteristics of visual functions p0276 A79-50656
 Dynamic measurement of human cyclofusional eye movements p0142 N79-18575
- DYNAMIC CONTROL**
 The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156
 Control of robot manipulators from the modeling of their dynamics --- French thesis p0101 A79-23427
 Prosthetic EMG control enhancement through the application of man-machine principles p0117 N79-17505
- DYNAMIC LOADS**
 The relationship between adult articular cartilage thickness and dynamic loads of a uniaxial joint p0154 N79-19671
- DYNAMIC MODELS**
 A model for sensorimotor control and learning p0005 A79-12122
 Control of robot manipulators from the modeling of their dynamics --- French thesis p0101 A79-23427
 Problem of modeling the mechanism of heart contraction p0275 A79-50287
 A discrete parameter model of the head and neck with neuromuscular feedback p0211 N79-24627
 Preliminary design specifications of a calcium model [NASA-CR-160199] p0217 N79-25716
 Use of a computer model in the understanding of erythropoietic control mechanisms [NASA-CR-160201] p0217 N79-25718
 User's instructions for the cardiovascular Walters model [NASA-CR-160204] p0217 N79-25721
 Fluid and electrolyte control systems in the human body: A study report [NASA-CR-160210] p0217 N79-25723
 On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
 User's instructions for the Guyton circulatory dynamics model using the Univac 1110 batch and demand processing (with graphic capabilities) [NASA-CR-160215] p0218 N79-25731
 Modifications to the steady-state 41-node thermoregulatory model including validation of the respiratory and diffusional water loss equations [NASA-CR-160219] p0219 N79-25738
 Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730] p0282 N79-30942
 The response of a realistic computer model for sitting humans to different types of shocks p0288 N79-31927
 Progress in measuring and modeling the effects of low frequency vibration on performance

Car driving as a cybernetic task [IZF-1979-6]	p0288 N79-31930	Aeromedical aspects of otolaryngology
DYNAMIC PROGRAMMING	p0309 N79-32838	p0136 A79-27562
Selecting the program of motions for a biped walking machine	p0166 A79-31490	Auditory analysis of complex sound: Electrophysiological investigations --- Russian book
DYNAMIC PROPERTIES		p0167 A79-31899
U DYNAMIC CHARACTERISTICS		A mathematical scheme for predicting the electro-acoustic frequency response of hearing aid receiver-earmold-ear systems
DYNAMIC RESPONSE		p0154 N79-19673
NT TRANSIENT RESPONSE		Functional connections of the central auditory nervous system: Thalamocortical corticototalamic and corticotectal connections of the AI, AII and AAF auditory cortical fields
Significance of motor activity for spatial hearing	p0043 A79-14372	p0246 N79-27839
On the relationship between pilot rating and pilot dynamics. I - An experimental approach	p0066 A79-18474	EAR PRESSURE TEST
On the relationship between pilot rating and pilot dynamics. II - An analytical approach	p0066 A79-18475	Analysis of inert gas exchange in the middle ear
Dynamics of an image viewed through a rotating mirror	p0221 A79-36365	p0017 N79-10723
Application of pseudo random binary sequence input to identification of respiratory control dynamics	p0268 A79-48011	EAR PROTECTORS
Fung mechanics: Dynamic response, acoustic generation, and flow limitation	p0017 N79-10727	In-flight measures of stress reduction due to wearing expandable foam earplugs
Dynamic response of vertebral elements related to USAF injury [AD-A059489]	p0071 N79-14713	p0273 A79-49986
The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems --- sensitivity of operators versus monitors to failures	p0087 N79-15596	EARPHONES
Discrete-time pilot model --- human dynamics and digital simulation	p0088 N79-15601	Effects of phase manipulation on speech intelligibility through communication headsets --- light aircraft radio communication
The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance	p0089 N79-15608	p0164 A79-30654
Modelling the human operator of slowly responding systems using linear models	p0117 N79-17492	EARTH (PLANET)
Multi-channel stimulation of peripheral nerve trunks	p0176 N79-21753	A proposal concerning the origin of life on the planet earth
Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253]	p0284 N79-31901	p0253 A79-45641
Reference parameters for shock inputs and shock tolerance limits	p0284 N79-31905	EARTH ATMOSPHERE
Multiaxis dynamic response of the human head and neck to impact acceleration	p0284 N79-31906	NT BIOSPHERE
The response of a realistic computer model for sitting humans to different types of shocks	p0288 N79-31927	NT PRIMITIVE EARTH ATMOSPHERE
Some human responses to repeated +G sub z pulses	p0288 N79-31928	EARTH ENVIRONMENT
The biodynamic response of the human body and its application to standards	p0288 N79-31929	The evolution of the environment and its influence on the evolution of life
DYNAMIC STABILITY		p0099 A79-22076
NT AERODYNAMIC STABILITY		A review of recent concepts of the problem of the origin of life
NT AIRCRAFT STABILITY		p0221 A79-36041
NT FLOW STABILITY		EARTH RESOURCES
NT HOVERING STABILITY		NT FORESTS
NT MOTION STABILITY		NT GEOTHERMAL RESOURCES
Stabilization of the horizontal motion of a bipedal walking robot	p0251 A79-44081	NT SPRINGS (WATER)
DYNAMIC TESTS		EARTH RESOURCES PROGRAM
The dynamic oxygen-regulator test stand [AD-A060978]	p0125 N79-17560	NT SEASAT PROGRAM
EAR		EARTH RESOURCES SURVEY PROGRAM
NT COCHLEA		NT SEASAT PROGRAM
NT LABYRINTH		EARTH SATELLITES
NT MIDDLE EAR		NT BIOSATELLITES
NT SEMICIRCULAR CANALS		NT COSMOS SATELLITES
NT VESTIBULES		NT COSMOS 782 SATELLITE

E

EAR	
NT COCHLEA	
NT LABYRINTH	
NT MIDDLE EAR	
NT SEMICIRCULAR CANALS	
NT VESTIBULES	

- Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components
[NASA-CR-158627] p0197 N79-25705
- Results of benthic studies at Calvert Cliffs
[PB-294261/3] p0261 N79-29788
- ECONOMICS**
NT DEMAND (ECONOMICS)
- ECOSYSTEMS**
A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem p0132 A79-26373
- Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science p0228 A79-41702
- Ecosystem models, volume 3. A bibliography with abstracts [NTIS/PS-78/1146/6] p0054 N79-13678
- Ecosystem models, volume 2. A bibliography with abstracts [NTIS/PS-78/1145/8] p0054 N79-13679
- Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium. Volume 2: USSR Symposium [PB-287219/0] p0112 N79-16546
- EDDY DIFFUSION**
U TURBULENT DIFFUSION
- EDEMA**
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression p0185 A79-33806
- Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333] p0220 N79-25743
- EDITING**
Editing procedure for anthropometric survey data [AD-A060393] p0093 N79-15639
- EDUCATION**
NT ASTRONAUT TRAINING
NT FLIGHT TRAINING
NT GUNNERY TRAINING
NT PILOT TRAINING
NT SPACE FLIGHT TRAINING
The next decade - Development, training, supervision p0102 A79-23584
- Relations between research and instruction in physiology and aerospace ergonomics in the military health services p0104 A79-23960
- Training of visual recognition p0160 A79-29250
- Psychiatric education in aerospace medicine p0202 A79-37712
- Retention and transfer of training on a procedural task interaction of training strategy and cognitive style [AD-A058966] p0052 N79-12704
- Training implications p0114 N79-16565
- Evaluation of four target-identification training techniques [AD-A061175] p0123 N79-17548
- Training effect of recognition of different alphabets of visual stimuli p0175 N79-21747
- ARPA authoring system [AD-A064723] p0190 N79-22762
- Physiological effects of a military training program on males and females [AD-A062936] p0220 N79-25744
- Stress management: A comparison of educational, aerobic and autosuggestive approaches p0260 N79-28875
- Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
- Advanced training features: Bridging the gap between in-flight and simulator-based models of flying training [AD-A068142] p0289 N79-31934
- EEG (ELECTROENCEPHALOGRAMS)**
U ELECTROENCEPHALOGRAPHY
- EFFECTIVENESS**
NT COST EFFECTIVENESS
NT SYSTEM EFFECTIVENESS
Aircrew personnel restraint subsystems definition of deficiencies and requirements
- [AD-A058995] p0053 N79-12711
- EFFECTORS**
U CONTROL EQUIPMENT
- EFFERENT NERVOUS SYSTEMS**
Recruitment and discharge properties of motor units in human brachial biceps and adductor pollicis during isometric contractions p0216 N79-25708
- EFFLUENTS**
Methods for measuring the acute toxicity of effluents to aquatic organisms [PB-289605/8] p0170 N79-20719
- EJECTION INJURIES**
High 'Q' escape protection --- pilot restraint during high speed ejection p0044 A79-14428
- Vertebral fractures in Gnat ejections p0201 A79-37134
- Ejection problems and injuries - Their causes, effects and treatments, and suggestions for preventive measures p0267 A79-47338
- Spinal injury pattern due to ejections p0272 A79-49734
- Spinal injuries in the F/PB-111 crew escape system p0274 A79-49996
- Studies of limb-dislodging forces acting on an ejection seat occupant [AD-A064882] p0196 N79-23658
- Correlation of mechanism of extremity injury and aerodynamic factors in ejections from F-4 aircraft p0284 N79-31904
- EJECTION SEATS**
Design considerations for inflatable head/neck restraint systems p0043 A79-14407
- High 'Q' escape protection --- pilot restraint during high speed ejection p0044 A79-14428
- Aerodynamic forces exerted on an articulated human body subjected to windblast [AD-A059023] p0055 N79-13688
- Studies of limb-dislodging forces acting on an ejection seat occupant [AD-A064882] p0196 N79-23658
- ELASTIC CONSTANTS**
U ELASTIC PROPERTIES
- ELASTIC MODULUS**
U MODULUS OF ELASTICITY
- ELASTIC PROPERTIES**
NT MODULUS OF ELASTICITY Basic biomechanics equations for cardiovascular flow p0304 A79-53534
- ELASTIC WAVES**
NT AIRCRAFT NOISE
NT NOISE (SOUND)
NT SHOCK WAVES
NT SONIC BOOMS
NT SOUND WAVES
NT ULTRASONIC RADIATION
- ELASTICITY**
U ELASTIC PROPERTIES
- ELASTOMERS**
A preliminary toxicological study of silastic 386 foam elastomer: catalyst [LA-7366-MS] p0071 N79-14714
- Physical testing of polymers use in circulatory assist devices [PB-286129/2] p0084 N79-15579
- ELECTRIC CHARGE**
NT ELECTROSTATIC CHARGE
- ELECTRIC COILS**
NT MAGNETIC COILS
- ELECTRIC CONNECTORS**
Simulated EVA operation of a remote connector assembly test report [NASA-CR-161167] p0156 N79-19687
- ELECTRIC CURRENT**
NT ELECTRIC DISCHARGES
- ELECTRIC DISCHARGES**
NT RADIO FREQUENCY DISCHARGE
- ELECTRIC DISCHARGES**
NT RADIO FREQUENCY DISCHARGE
Synthesis of amino acids under primitive earth conditions in the presence of clay p0203 A79-37930
- Recruitment and discharge properties of motor units in human brachial biceps and adductor pollicis during isometric contractions p0216 N79-25708

ELECTRIC FIELDS

State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field
p0075 N79-14742

Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827

Feasibility of an epidemiological study of workers occupationally exposed to high voltage electric fields in the electric power industry [EPRI-EA-1020] p0316 N79-33832

ELECTRIC FILTERS

NT DIGITAL FILTERS

Synchronous brain evoked potential correlates of directed attention in humans p0110 N79-16537

ELECTRIC GENERATORS

NT THERMOELECTRIC GENERATORS

ELECTRIC POTENTIAL

NT BIOELECTRIC POTENTIAL

Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0266 A79-47331

ELECTRIC POWER

Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4] p0241 N79-26780

ELECTRIC POWER PLANTS

NT NUCLEAR POWER PLANTS

Application of computer animation for dynamic display in complex energy systems --- for human operator performance improvement p0186 A79-34172

ELECTRIC POWER TRANSMISSION

A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system [AD-A070912] p0309 N79-32841

ELECTRIC STIMULI

Phosphorylase in human skeletal muscle during exercise and electrical stimulation p0067 A79-18962

Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634

ELECTRICAL ENERGY

U ELECTRIC POWER

ELECTRICAL IMPEDANCE

NT ELECTRICAL RESISTANCE

ELECTRICAL PROPERTIES

NT DIELECTRIC PROPERTIES

NT ELECTRICAL RESISTANCE

NT PERMITTIVITY

Electrical parameter values of some human tissues in the radiofrequency radiation range [AD-A064202] p0189 N79-22754

ELECTRICAL RESISTANCE

Skin-resistance measuring device with higher resolution p0252 A79-45476

ELECTRO-OPTICS

ISAAC-1 - A color sensing robot p0138 A79-28168

ELECTROCARDIOGRAMS

U ELECTROCARDIOGRAPHY

ELECTROCARDIOGRAPHY

Simulation study on time series of heart responses p0037 A79-13197

Selection of astronaut candidates - Contribution of the exercise ECG and spirography p0047 A79-15489

Value and limits of the electrocardiogram in aviation medicine evaluations p0048 A79-15495

ST isopotential precordial surface maps in patients with acute myocardial infarction p0098 A79-21245

Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits p0098 A79-21246

The effects of filtering the His-Purkinje system electrocardiogram p0130 A79-26073

Single frequency RF powered ECG telemetry system p0131 A79-26074

Electrocardiographic abnormalities in Air Force personnel p0182 A79-33191

Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression p0186 A79-34284

Aerobiotelemetry from a fighter aircraft p0200 A79-37131

Influence of Beta-Blockade on asymptomatic ST-T wave changes - A follow up study p0201 A79-37137

Some electrophysiological concepts of the U wave of ECG p0201 A79-37138

Homomorphic analysis and modeling of ECG signals p0210 A79-39973

The eccentric spheres model as the basis for a study of the role of geometry and inhomogeneities in electrocardiography p0226 A79-40649

An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424

Microwave apexcardiography p0231 A79-41848

Adjustment of an electronic model for electrocardiogram simulation p0232 A79-42240

The evolutionary pattern of exercise-induced ST segment depression p0251 A79-44166

The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases p0256 A79-46600

Non-invasive information on the P-R segment of the cardiac cycle - An assessment of the clinical potential of the electric and magnetic methods p0295 A79-51045

Continuous long-duration recording of the heart rate by means of a noncontact technique p0300 A79-53068

Theoretical foundations of cardiovascular processes --- Book p0304 A79-53531

Fundamentals of electrical processes in the electrophysiology of the heart p0304 A79-53532

Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method p0015 N79-10707

The significance of I wave abnormalities p0029 N79-11713

Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0029 N79-11714

Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715

Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles p0030 N79-11716

Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763

A nonlinear mapping approach to discrimination of sleep stages from the human electroencephalogram p0314 A79-33817

ELECTROCHEMISTRY

Use of platinum electrodes for the electrochemical detection of bacteria p0131 A79-26146

ELECTRODERMAL RESPONSE

U GALVANIC SKIN RESPONSE

ELECTRODES

NT GLASS ELECTRODES

NT IMPLANTED ELECTRODES (BIOLOGY)

Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography p0098 A79-21243

Use of platinum electrodes for the electrochemical detection of bacteria p0131 A79-26146

ELECTROENCEPHALOGRAM

 U ELECTROENCEPHALOGRAPHY

ELECTROENCEPHALOGRAPHY

Vigilance and electroencephalogram --- human performance in compensatory target tracking p0100 A79-22975

Characteristics of EEG changes in rabbits in response to local cooling or heating of the central thermosensory area p0221 A79-36097

Analysis of electroencephalogram during psychomotor performance p0209 A79-38820

Computerized clinical electroencephalography in perspective p0226 A79-40648

Portable device for detection of petit mal epilepsy p0254 A79-46226

Synchronous brain evoked potential correlates of directed attention in humans p0110 N79-16537

Effects of filtering electroencephalic signals on auditory evoked brain stem responses p0176 N79-21758

A computer system for statistical analysis of EEG transients p0216 N79-25707

ELECTROLYTE METABOLISM

A review of the consequences of fluid and electrolyte shifts in weightlessness [IAF PAPER 78-50] p0002 A79-11220

Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948

Thresholds for Na⁺/ and Ca⁺⁺/ effects on thermoregulation p0045 A79-14774

Effect of water and electrolyte replacement during exercise in the heat on biochemical indices of stress and performance p0127 A79-24629

Circadian rhythm of electrolyte excretion in healthy persons p0257 A79-46681

Effects of space flight factors on electrolyte composition of rat skeletal muscles p0109 N79-16530

Fluid and Electrolyte Balance model (PEB) [NASA-CR-160206] p0211 N79-24633

Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819

Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792

Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite p0311 N79-33795

ELECTROLYTES

Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions p0161 A79-29336

Plasma electrolytes in relation to altitude tolerance in rats p0163 A79-30652

Hyperthermia and exercise --- plasma fluid and electrolyte effects on human thermoregulation p0252 A79-44775

A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722

Fluid and electrolyte control systems in the human body: A study report [NASA-CR-160210] p0217 N79-25723

On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725

ELECTROMAGNETIC ABSORPTION

 NT ULTRAVIOLET ABSORPTION

 NT X RAY ABSORPTION

Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna p0136 A79-27959

Electromagnetic absorption in a multilayered model of man p0226 A79-40650

An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals --- Specific Absorption Rate p0278 A79-51015

Molecular absorption of non-ionizing radiation in biological systems p0082 N79-15553

Determination of bound water in biological materials from dielectric measurements p0082 N79-15557

Microwave and RF dosimetry p0083 N79-15561

Some recent results on the deposition of electromagnetic energy in animals and models of man p0083 N79-15563

Numerical studies of absorption of electro-magnetic energy by man p0110 N79-16538

ELECTROMAGNETIC COMPATIBILITY

On the measurement of hazardous e.m. fields radiated through an aperture p0233 A79-42486

ELECTROMAGNETIC CONTROL

 U REMOTE CONTROL

ELECTROMAGNETIC DEDUCTION

 U MAGNETIC INDUCTION

ELECTROMAGNETIC FIELDS

Electromagnetic fields and power deposition in body-of-revolution models of man p0130 A79-26007

Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666

Biological effects of electromagnetic fields p0184 A79-33711

Biological effects of electromagnetic fields p0184 A79-33712

Effect of electromagnetic fields in long-, medium-, and short-wave ranges on biological objects p0185 A79-33713

A mechanism for high-frequency electromagnetic field-induced biological damage p0231 A79-41847

Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740

Electromagnetic fields in biological media. Part 1: Dosimetry - a primer on bioelectromagnetics [PB-285793/6] p0078 N79-14759

Electric field measurements within biological media p0083 N79-15562

A technical review of the biological effects of non-ionizing radiation [PB-290166/8] p0171 N79-20728

Decrease in the functional abilities of the heart as a result of exposure of an organism to an electromagnetic field of industrial frequency p0172 N79-20733

The influence of SHF electromagnetic fields on the secretory function of the stomach p0173 N79-20740

ELECTROMAGNETIC INTERACTIONS

The Physical Basis of Electromagnetic Interactions with Biological Systems [REW-PUB-PDA-78-8055] p0081 N79-15551

Survey of microwave and radiofrequency biological effects and mechanisms p0082 N79-15552

Molecular absorption of non-ionizing radiation in biological systems p0082 N79-15553

Millimeter wave and far infrared absorption in biological systems p0082 N79-15554

Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555

Classical theory of microwave interactions with biological systems p0082 N79-15556

Interfacial and intracellular water: Expected anomalies in dielectric properties p0082 N79-15558

- Microwave frequencies and the structure of the double helix p0082 N79-15559
- ELECTROMAGNETIC INTERFERENCE**
- NT ATMOSPHERICS
 - NT RADIO FREQUENCY INTERFERENCE
 - ELECTROMAGNETIC NOISE
 - NT ATMOSPHERICS
 - ELECTROMAGNETIC PROPERTIES**
 - NT BRIGHTNESS
 - NT COLOR
 - NT DIELECTRIC PROPERTIES
 - NT ELECTRICAL PROPERTIES
 - NT ELECTROMAGNETIC ABSORPTION
 - NT OPTICAL PROPERTIES
 - NT PERMITTIVITY - ELECTROMAGNETIC PULSES**
 - A mechanism for high-frequency electromagnetical field-induced biological damage p0231 A79-41847
 - The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionizing radiation (EMR) p0018 N79-10733 - ELECTROMAGNETIC RADIATION**
 - NT ELECTROMAGNETIC PULSES
 - NT FAR INFRARED RADIATION
 - NT GAMMA RAYS
 - NT INFRARED RADIATION
 - NT LIGHT (VISIBLE RADIATION)
 - NT LIGHT BEAMS
 - NT MICROWAVE EMISSION
 - NT MICROWAVES
 - NT MILLIMETER WAVES
 - NT MONOCHROMATIC RADIATION
 - NT RADIO EMISSION
 - NT RADIO WAVES
 - NT SUNLIGHT
 - NT THERMAL RADIATION
 - NT ULTRAVIOLET RADIATION
 - Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges p0129 A79-24878
 - Cell mechanisms for the biological effects of electromagnetic fields p0188 A79-35569
 - Biological effects of nonionizing electromagnetic radiation. Volume 2, number 4: A digest of current literature [AD-A055569] p0055 N79-13689
 - Translations on USSR science and technology: Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606] p0074 N79-14736
 - Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field p0074 N79-14737
 - Translations on USSR science and technology: Biomedical and behavioral sciences, no. 59. Effects of nonionizing electromagnetic radiation [JPRS-72956] p0171 N79-20732
 - Immunological effects of microwave action p0172 N79-20736
 - Effect of different doses of centimeter-band electromagnetic oscillations of bioluminescence of central nervous system and liver tissues p0172 N79-20738
 - Biological effects of nonionizing electromagnetic radiation, volume 3, number 4 [AD-A070242] p0315 N79-33826

ELECTROMAGNETIC SCATTERING

 - NT LIGHT SCATTERING
 - NT RAYLEIGH SCATTERING
 - NT X RAY SCATTERING
 - ELECTROMAGNETIC SPECTRA**
 - NT INFRARED SPECTRA
 - NT VIBRATIONAL SPECTRA - ELECTROMAGNETIC WAVE FILTERS**
 - NT DIGITAL FILTERS
 - NT ELECTRIC FILTERS - ELECTROMAGNETIC WAVE TRANSMISSION**
 - NT LIGHT SCATTERING
 - NT LIGHT TRANSMISSION

NT RADIO TRANSMISSION

ELECTROMAGNETIC WAVES

 - U ELECTROMAGNETIC RADIATION

ELECTROMYOGRAMS

 - U ELECTROGYROGRAPHY

ELECTROMYOGRAPHS

 - U ELECTROGYROGRAPHY

ELECTROMYOGRAPHY

 - Effects of vestibular stimuli on the electrical activity of muscles p0187 A79-35121
 - Frequency and amplitude analysis of the EMG during exercise on the bicycle ergometer p0297 A79-52022
 - Electrophysiological correlates of local muscular fatigue effects upon human visual reaction time p0297 A79-52025
 - Prosthetic EMG control enhancement through the application of man-machine principles p0117 N79-17505

ELECTRON FLUX

 - U ELECTRONS

ELECTRON MICROSCOPY

 - Scanning and transmission electron microscopy of the blood-bubble interface in decompressed rats p0266 A79-47333
 - Design of polymeric immunomicrospheres for cell labelling and cell separation p0275 A79-50234

ELECTRON PARAMAGNETIC RESONANCE

 - ESR studies on different pathological states [ISS-L-22/9] p0248 N79-27854

ELECTRON RADIATION

 - NT BETA PARTICLES

ELECTRON SPIN RESONANCE

 - U ELECTRON PARAMAGNETIC RESONANCE

ELECTRON TUBES

 - NT CATHODE RAY TUBES

ELECTRONIC CONTROL

 - Evolution of the man-machine interface in surveillance radar systems p0001 A79-10322
 - Control logic design criteria for multifunction switching devices --- in aircraft p0064 A79-18223

ELECTRONIC EQUIPMENT

 - NT ELECTRONIC FILTERS
 - NT ELECTRONIC TRANSDUCERS
 - NT MINIATURE ELECTRONIC EQUIPMENT
 - Improved subcutaneous electrode structure [NASA-CASE-ARC-11117-1] p0084 N79-15576

ELECTRONIC FILTERS

 - The effects of filtering the His-Purkinje system electrocardiogram p0130 A79-26073
 - Computerized clinical electroencephalography in perspective p0226 A79-40648

ELECTRONIC SWITCHES

 - U SWITCHING CIRCUITS

ELECTRONIC TRANSDUCERS

 - Development and application of resistive pulse spectroscopy: Studies on the size, form and deformability of red blood cells [LBL-8640] p0280 N79-30924

ELECTRONS

 - The effect of 1 to 5 keV electrons on the reproductive integrity of microorganisms p0147 N79-19025

ELECTROSTAGMOGRAPHY

 - Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability p0188 A79-35122

ELECTROPHORESIS

 - Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms [NBC/CNR-TT-1924] p0120 N79-17521
 - Electrophoresis pattern of serum from mice exposed to different concentrations of sulfur dioxide p0147 N79-19027
 - A method for separating biological cells [NASA-CASE-NFS-23883-1] p0175 N79-21743
 - Preparation of guinea pig macrophage for electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814

ELECTROPHYSICS

 - NT ELECTRO-OPTICS

ELECTROPHYSIOLOGY

- Auditory analysis of complex sound:
Electrophysiological investigations --- Russian book
p0167 A79-31899
- Some electrophysiological concepts of the U wave of ECG
p0201 A79-37138
- Electrophysiologcal investigation of sleep during work-shift regime and production-induced emotional stress
p0276 A79-50655
- Electrophysiologcal correlates of local muscular fatigue effects upon human visual reaction time
p0297 A79-52025
- Fundamentals of electrical processes in the electrophysiology of the heart
p0304 A79-53532
- Electrophysiologcal determination of retinal sensitivity to color after intense monochromatic light adaptation
[AD-A063852] p0189 N79-22756
- The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission
[AD-A063856] p0213 N79-24647
- Effects of sleep at altered ambient temperatures on electrophysiologcal sleep and thermoregulatory mechanisms in human subjects and in the ground squirrel (*Citellus lateralis*)
p0216 N79-25709
- The effect of impact acceleration on the electrical activity of the brain
p0287 N79-31921

ELECTROPLETHYSMOGRAPHY

- Possibilities and perspectives of tetrapolar transthoracic impedance rheophethysmography in noninvasive studies of hemo- and cardiodynamics
p0296 A79-51118

ELECTRORETINOGRAPHY

- An apparatus for studying electroretinographic responses under conditions of space flight
p0006 A79-12517
- Primate cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram
p0104 A79-24065
- Reciprocal interaction between the photopic and scotopic systems of the visual analyzer in man
p0296 A79-51327

ELECTROSTATIC CHARGE

- Investigation of techniques to reduce electrostatic discharge susceptibility of EED's containing plastic plugs
[AD-A059982] p0093 N79-15638

ELECTROSTATIC FIELDS**U ELECTRIC FIELDS****ELEMENT ABUNDANCE****U ABUNDANCE****ELEMENTARY EXCITATIONS****NT PLASMONS****ELEMENTARY PARTICLES****NT BETA PARTICLES****NT ELECTRONS****NT FAST NEUTRONS****NT LIGHT BEAMS****EMBOLISMS****NT AEROMBOILISM****EMBRYOLOGY**

- Killifish development in zero-G on COSMOS 782:
Fundulus experiment K-104
p0021 N79-11659
- Effects of weightlessness on the embryonic development and aging of Drosophila
p0022 N79-11670

EMBRYOS

- Role of gravity in early development
[NASA-TM-75590] p0049 N79-12684

EMERGENCIES

- An illness-injury severity index
p0050 N79-12688

EMERGENCY BREATHING TECHNIQUES

- Evaluation of assisted positive-pressure breathing on +Gz tolerance
p0266 A79-47336

EMERGENCY LIFE SUSTAINING SYSTEMS

- Evaluation of the helicopter in aeromedical transfers
p0128 A79-24638

The child in coma

p0094 N79-15890

EMISSION

- NT CHEMILUMINESCENCE
NT FLUORESCENCE
NT MICROWAVE EMISSION
NT RADIO EMISSION

EMOTIONAL FACTORS

- Mental work and emotions --- Russian book
p0002 A79-10847

EMOTIONS

- Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight and on effectiveness of assimilation of flight training program
p0074 N79-14735

ENCOUNTERS

- Human operators in adversary tracking encounters
p0269 A79-48015

ENDOCRINE GLANDS

- NT ADRENAL GLAND
NT PARATHYROID GLAND
NT PINEAL GLAND
NT PITUITARY GLAND
NT PROSTATE GLAND
NT THYMUS GLAND
NT THYROID GLAND

ENDOCRINE SECRECTIONS

- NT ADRENOCORTICOTROPIN (ACTH)
NT ALDOSTERONE
NT HORMONES
NT INSULIN
NT PITUITARY HORMONES

ENDOCRINE SYSTEMS

- A review of the consequences of fluid and electrolyte shifts in weightlessness
[IAF PAPER 78-50] p0002 A79-11220

ENDOLYMPH

- Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat
p0069 A79-19425

ENDOSCOPES

- Apparatus for endoscopic examination
[NASA-CASE-NPO-14092-1] p0155 N79-19678

ENDOTOXINS

- Effects of methylprednisolone sodium succinate on clearance of live *E. coli* from peripheral blood of dogs
[AD-A062123] p0169 N79-20717

ENDURANCE

- Anaerobic threshold alterations caused by endurance training in middle-aged men
p0227 A79-41184

ENERGETIC PARTICLES**NT ELECTRONS****ENERGY ABSORPTION**

- NT ELECTROMAGNETIC ABSORPTION
NT MOLECULAR ABSORPTION
NT THERMALIZATION (ENERGY ABSORPTION)
NT ULTRAVIOLET ABSORPTION
NT X RAY ABSORPTION

ENERGY CONVERSION**NT BIOMASS ENERGY PRODUCTION**

- Emergence of biotechnology
[TID-28983] p0211 N79-24626
- Development of an electrical energy converter for driving left heart assist blood pumps
[PB-293510/4] p0241 N79-26780

ENERGY DISSIPATION

- Energy expenditures of man during long exposure to a periodically changing atmosphere
p0312 N79-33799

ENERGY EXCHANGE**U ENERGY TRANSFER****ENERGY LEVELS****NT INTERMOLECULAR FORCES****ENERGY LOSSES****U ENERGY DISSIPATION****ENERGY REQUIREMENTS**

- Energy supply and demand in California
p0242 N79-27603

ENERGY SPECTRA**NT NEUTRON SPECTRA****ENERGY TRANSFER**

- Energy transfer mechanisms in photobiological reactions
[COO-875-180] p0283 N79-31898

ENGINEERING DEVELOPMENT	
U PRODUCT DEVELOPMENT	
ENGINES	
New combined aspirator for sampling developed	p0170 N79-20722
ENHANCEMENT	
U AUGMENTATION	
ENTOMOLOGY	
Capabilities of radar as they might relate to entomological studies	p0148 N79-19598
ENUMERATION	
Microbial transformation of nucleosides	
[NASA-CR-158696]	p0197 N79-25704
ENVIRONMENT EFFECTS	
Adaptive control of a robotic manipulator	p0046 A79-15001
Response of the rat erythrocyte to ozone exposure	
p0067 A79-18963	
The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man	
p0267 A79-47398	
Impact of large scale aquatic biomass systems	
[PB-282617/0]	p0013 N79-10697
A literature review-problem definition studies on selected toxic chemicals. Volume 5:	
Occupational health and safety and environmental aspects of zinc chloride	
[AD-A056020]	p0025 N79-11687
A literature review-problem definition studies on selected toxic chemicals. Volume 8:	
Environmental aspects of diesel fuel and fog oils SGP number 1 and SGP number 2 and smoke screens generated from them	
[AD-A056021]	p0025 N79-11688
Intelligence	
p0095 N79-15896	
Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium.	
Volume 2: USSR Symposium	
[PB-287219/0]	p0112 N79-16546
A real-world assessment of noise exposure	
[AD-A061692]	p0155 N79-19680
ENVIRONMENT MODELS	
Ecosystem models, volume 3. A bibliography with abstracts	
[NTIS/PS-78/1146/6]	p0054 N79-13678
Ecosystem models, volume 2. A bibliography with abstracts	
[NTIS/PS-78/1145/8]	p0054 N79-13679
A theoretical and experimental analysis of the outside world perception process	
p0091 N79-15625	
ENVIRONMENT POLLUTION	
NT AIR POLLUTION	
NT WATER POLLUTION	
Translations on USSR science and technology.	
Biomedical and behavioral science, no. 54	
[JPRS-72650]	p0077 N79-14753
Chemicals in environment affect man's physiology	
p0077 N79-14754	
ENVIRONMENT PROTECTION	
A Canadian approach to high altitude protection --- fighter pilot garmentry and high pressure masks	
p0045 A79-14435	
Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection --- German book	
p0162 A79-29763	
ENVIRONMENT SIMULATION	
NT ACOUSTIC SIMULATION	
NT ALTITUDE SIMULATION	
NT SPACE ENVIRONMENT SIMULATION	
NT WEIGHTLESSNESS SIMULATION	
Porphyrin-like compounds genesis under simulated abiotic conditions	
p0099 A79-22078	
Applied analysis of computer simulated decompression profiles	
p0017 N79-10722	
ENVIRONMENTAL CHAMBERS	
U TEST CHAMBERS	
ENVIRONMENTAL CONTROL	
Spacelab environmental control/life support system /ECLSS/ for life science experiments	
[IAP PAPER 78-59]	p0003 A79-11225
The dependence of the CO ₂ removal efficiency of LiOH on humidity and mesh size --- in spacecraft life support systems	
[ASME PAPER 78-ENAS-5]	p0006 A79-12554
Animal life support transporters for Shuttle/Spacelab	
[ASME PAPER 78-ENAS-10]	p0006 A79-12559
The Spacelab flight unit environmental control/life support system	
[ASME PAPER 78-ENAS-14]	p0007 A79-12563
Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft	
[ASME PAPER 78-ENAS-22]	p0007 A79-12571
Challenges to life support system's future	
[ASME PAPER 78-ENAS-28]	p0008 A79-12577
Extended duration orbiter life support system options	
[ASME PAPER 78-ENAS-31]	p0008 A79-12580
Instrumentation for controlling and monitoring environmental control and life support systems	
[ASME PAPER 78-ENAS-40]	p0009 A79-12587
Extended duration Orbiter life support definition	
[ASME PAPER 78-ENAS-42]	p0009 A79-12588
Test evaluation of space station ECLSS maintenance concepts --- Environmental Control and Life Support System	
[ASME PAPER 78-ENAS-43]	p0009 A79-12589
Generalized environmental control and life support system computer program (G1894), phase 3	
[NASA-CR-151836]	p0019 N79-10741
Concept definition for an extended duration orbiter ECLSS	
[NASA-CR-160164]	p0197 N79-23666
ENVIRONMENTAL MONITORING	
Environment monitoring in the USSR and hygienic practice --- anthropogenic effects	
p0121 N79-17528	
ENVIRONMENTAL QUALITY	
NT WATER QUALITY	
ENVIRONMENTAL SURVEYS	
Zinc	
[PB-285130/1]	p0057 N79-13704
Radiofrequency radiation levels and population exposure in urban areas of the eastern United States	
[PB-292855/4]	p0241 N79-26779
ENVIRONMENTAL TEMPERATURE	
U AMBIENT TEMPERATURE	
ENVIRONMENTAL TESTS	
NT COLD WEATHER TESTS	
NT HIGH TEMPERATURE TESTS	
Environmental test and evaluation of a molecular sieve on-board oxygen generation system	
[AD-A061531]	p0125 N79-17559
ENVIRONMENTS	
NT AEROSPACE ENVIRONMENTS	
NT EARTH ENVIRONMENT	
NT EXTRATERRESTRIAL ENVIRONMENTS	
NT HIGH ALTITUDE ENVIRONMENTS	
NT HIGH GRAVITY ENVIRONMENTS	
NT HIGH TEMPERATURE ENVIRONMENTS	
NT JUPITER ATMOSPHERE	
NT LOW TEMPERATURE ENVIRONMENTS	
NT MARINE ENVIRONMENTS	
NT MARS ENVIRONMENT	
NT PLANETARY ATMOSPHERES	
NT PLANETARY ENVIRONMENTS	
NT ROTATING ENVIRONMENTS	
NT SPACECRAFT ENVIRONMENTS	
NT THERMAL ENVIRONMENTS	
The human micro-environment	
p0248 N79-27851	
ENZYME ACTIVITY	
NT FERMENTATION	
Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for sodium ions in Halobacterium halobium - Translocation stoichiometries and apparent cooperativity	
p0002 A79-10425	
In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats	
p0005 A79-12400	
Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and	

bovine growth hormones	p0069 A79-19449	Cosmos-782 biosatellite	p0244 N79-27822
The growth of single crystals from proteins in gravity-free space [AIAA PAPER 79-0311]	p0069 A79-19665	ENZYMOLOGY Photochemistry and enzymology of photosynthesis [COO-3326-70]	p0239 N79-26763
Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia	p0165 A79-30696	EPIDEMIOLOGY A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures	p0104 A79-23958
Evolution of enzyme function - The coupled oscillator theory	p0205 A79-37970	Feasibility of an epidemiological study of workers occupationally exposed to high voltage electric fields in the electric power industry [EPRI-EA-1020]	p0316 N79-33832
Relationship between thermogenic drinking and plasma renin activity in the rat	p0235 A79-43211	EPILEPSY Portable device for detection of petit mal epilepsy	p0254 A79-46226
Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylyl cyclase and phosphodiesterase systems in the myocardium	p0255 A79-46500	EPINEPHRINE NT NOREPINEPHRINE	
Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects	p0297 A79-52023	EPOCHS U TIME MEASUREMENT	
Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite	p0014 N79-10700	EPOXY COMPOUNDS NT ETHYLENE OXIDE NT HYOSCINE	
Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma	p0017 N79-10721	EQUATIONS OF MOTION NT NAVIER-STOKES EQUATION Selecting the program of motions for a biped walking machine	p0166 A79-31490
Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782	p0020 N79-11655	Multibody dynamics including translation between the bodies, with application to head-neck systems [AD-A062114]	p0174 N79-20747
Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782	p0020 N79-11656	EQUIVALENCE Evidence for the equivalent-background hypothesis in cones --- for dark adaptation thresholds	p0232 A79-42233
COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat	p0023 N79-11675	ERECTION U CONSTRUCTION	
Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field	p0074 N79-14737	ERGOMETERS Anaerobic threshold alterations caused by endurance training in middle-aged men	p0227 A79-41184
Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue	p0075 N79-14738	Frequency and amplitude analysis of the EMG during exercise on the bicycle ergometer	p0297 A79-52022
Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5	p0107 N79-16515	Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill	p0024 N79-11681
Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite	p0108 N79-16518	Standardized examination methods in ergometry	p0029 N79-11710
Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates	p0121 N79-17527	Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies [SAND-77-2132]	p0034 N79-11748
Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite	p0244 N79-27823	Ergometric tests in expert medical certification of flight personnel	p0109 N79-16527
ENZYMES NT CATALASE		Possibility of improving assessment of cardio-pulmonary function by submaximal exercise on a bicycle ergometer [BLL-RTS-11657]	p0279 N79-30918
NT CHOLINESTERASE		ERGONOMICS U HUMAN FACTORS ENGINEERING	
NT COENZYMES Phosphorylase a in human skeletal muscle during exercise and electrical stimulation	p0067 A79-18962	ERROR ANALYSIS Subjective data in human reliability estimates	p0046 A79-15398
Beta-galactosidase and selective neutrality --- amino acid composition of proteins	p0132 A79-26169	A numerical method of film analysis with differentiation --- curve fitting with harmonic analysis	p0061 A79-17585
Evolution of enzyme function - The coupled oscillator theory	p0205 A79-37970	Perception of graphic displays of space	p0062 A79-18205
Calcium regulation in smooth muscle: Isolation and characterization of the myosin light chain kinase	p0024 N79-11680	Predictive validity of flight simulators as a function of simulator motion	p0181 A79-32627
Information on the comparative physiology of digestive enzymes [BLL-RTS-11203]	p0142 N79-18572	Error rate information in attention allocation pilot models	p0115 N79-17483
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard		Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-H9]	p0124 N79-17556
ERRORS NT PILOT ERROR		ERROR SIGNALS The human as a detector of changes in variance and bandwidth	p0117 N79-17496

- NT POSITION ERRORS
 NT VELOCITY ERRORS
ERYTHROCYTES
 Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
 Response of the rat erythrocyte to ozone exposure p0067 A79-18963
 Aggregation of red cells and blood viscosity as models of materials experimentation in the space environment [AIAA PAPER 79-0310] p0069 A79-19664
 RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
 Erythropoietic effects of space flight p0231 A79-42193
 Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite p0021 N79-11662
 Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
 Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
 The effects of ozone on human erythrocytes and phospholipid vesicles p0049 N79-12687
 Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions p0075 N79-14743
 Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol [AD-A059412] p0084 N79-15577
 Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630
 Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
 Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
 Validation of a model for investigating red cell mass changes during weightlessness [NASA-CR-160188] p0211 N79-24634
 User's instructions for the erythropoiesis regulatory model [NASA-CR-160193] p0216 N79-25711
 Use of a computer model in the understanding of erythropoietic control mechanisms [NASA-CR-160201] p0217 N79-25718
 Development and application of resistive pulse spectroscopy: Studies on the size, form and deformability of red blood cells [LBL-8640] p0280 N79-30924
 Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
 Effect of impact accelerations on chemical resistance of rat erythrocytes p0313 N79-33811
 Studies of metabolism, function and mechanism of destruction of red cells [AD-A070240] p0315 N79-33828
- ESRA**
 U EUROPEAN SPACE AGENCY
ESCAPE SYSTEMS
 High 'Q' escape protection --- pilot restraint during high speed ejection p0044 A79-14428
 Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction p0103 A79-23953
 Spinal injuries in the F/FB-111 crew escape system p0274 A79-49996
 Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods p0287 N79-31924
- ESCHERICHIA**
 Beta-galactosidase and selective neutrality --- amino acid composition of proteins p0132 A79-26169
 Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
- ESRO**
 U EUROPEAN SPACE AGENCY
- ESTERS**
 NT LACTATES
 NT ORGANIC NITRATES
 Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation p0239 N79-26765
- ESTIMATES**
 Estimating percentiles of nonnormal anthropometric populations - Final report p0065 A79-18226
- ESTIMATING**
 Time estimation as a technique to measure workload --- of aircraft pilot in flight simulation p0362 A79-18203
 Application of pseudo random binary sequence input to identification of respiratory control dynamics p0268 A79-48011
 Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
 Estimating percentiles of nonnormal anthropometric populations [AD-A061151] p0122 N79-17535
 Magnitude estimation as a hearing aid selection procedure p0246 N79-27838
- ETHYL ALCOHOL**
 Effect of alcohol and marijuana on eye movements p0101 A79-23469
 Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions p0105 A79-24520
 Current role of alcohol as a factor in civil aircraft accidents p0136 A79-27561
 Delayed effects of alcohol ingestion on + Gz tolerance p0272 A79-49730
 Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery p0273 A79-49984
 Evaluation of oxidizability of air in closed areas p0313 N79-33808
- ETHYLENE**
 A study of the mechanism of thigmomorphogenesis in plants, with special reference to the role of ethylene and its significance to research with plants in space [NASA-CR-158506] p0190 N79-23625
- ETHYLENE OXIDE**
 A system for sterilizing objects --- such as water systems on the space shuttle using ethylene oxide [NASA-CASE-KSC-11085-1] p0318 N79-33848
- EUCLIDEAN GEOMETRY**
 NT ANALYTIC GEOMETRY
 NT PROLATE SPHEROIDS
- EUROPEAN SPACE AGENCY**
 The European life sciences experiments onboard the first Spacelab mission [ASME PAPER 78-ENAS-24] p0007 A79-12573
- EUROPEAN SPACE RESEARCH ORGANIZATION**
 U EUROPEAN SPACE AGENCY
- EUTROPHICATION**
 Algal growth under multiple nutrient limiting conditions p0013 N79-10692
 Eutrophication. Volume 2: A bibliography with abstracts [NTIS/PS-78/0771/2] p0013 N79-10695
 Eutrophication. Volume 3: A bibliography with abstracts [NTIS/PS-78/0772/0] p0013 N79-10696
 Distribution of phytoplankton in North Carolina lakes [PB-286387/6] p0084 N79-15573

EVACUATING (TRANSPORTATION)

Evaluation of the helicopter in aeromedical transfers
NT TRAINING EVALUATION

p0128 A79-24638

EVALUATION

Quantifying operator preference during human factors test and evaluation --- in helicopter design
System operability - Concept and measurement in test and evaluation --- man system compatibility indices in F-18 aircraft example

p0062 A79-18202

Test and evaluation process for life support systems
Shalit Perceptual Organisation and Reduction Questionnaire (SPORQ): The instrument, design, administration and scoring [FOA-C-55021-H6]

p0249 N79-27859

A method for semi-automatic analysis of eye movements [DLR-MITT-79-02]

p0283 N79-30946

EVAPORATION RATE

Human skin wettedness and evaporative efficiency of sweating

p0162 A79-29726

EVENTS**NT CONSECUTIVE EVENTS****EVOKED RESPONSE (PSYCHOPHYSIOLOGY)**

Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation

p0159 A79-28735

Objective determination of human visual acuity from the visual evoked potential

p0228 A79-41423

Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons

p0232 A79-42234

On the latency of human visually evoked response to sinusoidal gratings

p0232 A79-42236

Electrophysiological correlates of local muscular fatigue effects upon human visual reaction time

p0297 A79-52025

EVOLUTION (DEVELOPMENT)**NT ABIOTGENESIS****NT BIOLOGICAL EVOLUTION****NT CHEMICAL EVOLUTION****NT GALACTIC EVOLUTION****NT PLANETARY EVOLUTION**

Evolutionary relationship based on a biochemical study of energy-acquiring system between Nitrosomonas europaea and Thiobacillus novellus

p0205 A79-37966

Control by episome on salt-resistance in bacteria

p0205 A79-37969

Role of gravity in early development [NASA-TM-75590]

p0049 N79-12684

Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873]

p0107 N79-16512

Prebiotic coordination chemistry: The potential role of transition-metal complexes in the chemical evolution

p0169 N79-20715

Between incident and accident

p0292 N79-31953

EVOLUTION (LIBERATION)**NT GAS EVOLUTION****EXAMINATION****NT EYE EXAMINATIONS**

Shalit Perceptual Organisation and Reduction Questionnaire (SPORQ): The instrument, design, administration and scoring [FOA-C-55021-H6]

p0249 N79-27859

EXCHANGING**NT GAS EXCHANGE****EXECUTIVE AIRCRAFT****GENERAL AVIATION AIRCRAFT****EXERCISE (PHYSIOLOGY)****PHYSICAL EXERCISE****EXERTION****PHYSICAL WORK****EXHAUST FLOW SIMULATION****FLIGHT SIMULATION****EXHAUST GASES**

A literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it [AD-A056018]

p0025 N79-11686

Human health damages from mobile source air pollution: A delphi method, volume 1 [PB-298319/7]

p0145 N79-18585

In-flight toxicology of fixed and rotary wing aircraft crew stations

p0149 N79-19619

Health effects associated with diesel exhaust emissions, literature review and evaluation [PB-298917/9]

p0171 N79-20727

EXHAUST JETS**U EXHAUST GASES****EXHAUSTION**

Heat- and exercise-induced hyperthermia - Effects on high-energy phosphates

p0266 A79-47332

EXOBIOLOGY

Life sciences and space research XVI; Proceedings of the Open Meetings of the Working Group on Space Biology, Tel Aviv, Israel, June 7-18, 1977

p0005 A79-12508

Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38]

p0009 A79-12585

Spacelab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129]

p0041 A79-14081

Biological implications of the Viking mission to Mars

p0045 A79-14595

The Viking biological investigations - Review and status

p0100 A79-22083

The physical appearance of intelligent aliens

p0105 A79-24519

Space biology and medicine

p0132 A79-26344

The response of selected terrestrial organisms to the Martian environment - A modeling study

p0136 A79-27928

The importance of the physical laws on the origin and evolution of life

p0207 A79-37983

Life sciences and space research XVII; Proceedings of the Open Meeting of the Working Group on Space Biology, May 29-June 10, 1978, and Symposium on Gravitational Physiology, Innsbruck, Austria, June 2, 3, 1978

p0228 A79-41701

Biological experiments carried out aboard the biological satellite Cosmos-936

p0230 A79-41717

Influence of orbital flight conditions on formation of genitals in Muscari racemosum and Anethum graveolens

p0230 A79-41718

Space biology and aerospace medicine, vol. 12, no. 5, 1978 [JPRS-72115]

p0013 N79-10698

US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525]

p0020 N79-11651

US experiments flown on COSMOS 782

p0020 N79-11652

Absence of gastric ulceration in rats after flight on the COSMOS 782

p0021 N79-11660

Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite

p0021 N79-11662

Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite

p0021 N79-11664

Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487]

p0072 N79-14716

Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988]

p0081 N79-14782

Publications of the planetary biology program for 1977: A special bibliography [NASA-TM-80338]

p0179 N79-21777

EXPANDABLE STRUCTURES

SUBJECT INDEX

Space biology and aerospace medicine, no. 2, 1979
[JPRS-73377] p0190 N79-23627

Space biology and aerospace medicine, v. 13, no.
3, 1979
[JPRS-73784] p0243 N79-27817

BIOSEPEX: Biological space experiments, a
compendium of life sciences experiments carried
on US spacecraft
[NASA-TM-59217] p0261 N79-29784

Space Biology and Aerospace Medicine, no. 4, 1979
[JPRS-74330] p0310 N79-33789

EXPANDABLE STRUCTURES

NT GAS BAGS

NT INFLATABLE STRUCTURES

EXPECTATION

The effect of expectations on slow oculomotor
control. I - Periodic target steps. II - Single
target displacements p0225 A79-40185

EXPERIMENTAL DESIGN

Experimental designs for investigating complex
human operator/machine systems p0040 A79-13225

The European life sciences experiments onboard the
first Spacelab mission p0100 A79-22254

Importance of temperature control for HEFLPX, a
biological experiment for Spacelab 1 --- plant
gravitational physiology study p0230 A79-41716

Design, fabrication and utility of a flight
oriented performance test p0271 A79-49728

Prospective Medicine Opportunities in Aerospace
Medicine --- conferences
[AGARD-CD-231] p0026 N79-11692

Early diagnosis for decompression sickness.
Changes in the blood found shortly after
decompression. Part 2: Experiments on rats
[MBL-1978-7] p0120 N79-17524

A construct validation of adaptive achievement
testing
[AD-A063148] p0173 N79-20742

Knee flail design limits: Background,
experimentation and design criteria
[AD-A062384] p0220 N79-25746

Some of the problems involved in planning
biological experiments p0312 N79-33805

EXPERIMENTATION

The Meduza experiment: An orbital complex ten
weeks in flight
[NASA-TM-75394] p0169 N79-20714

EXPIRATION

Modeling the effect of axial bronchial tension on
expiratory flow p0067 A79-18957

Mechanics of breathing during graded exercise
measured with the bodyplethysmograph p0029 N79-11709

Density dependence of maximum expiratory flow
p0050 N79-12691

EXPIRED AIR

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] p0175 N79-21750

EXPLORATION

NT SPACE EXPLORATION

EXPLOSIVE DECOMPRESSION

Scanning and transmission electron microscopy of
the blood-bubble interface in decompressed rats
p0266 A79-47333

EXPLOSIVE DEVICES

Safety evaluation tests of personal protective
equipment for ordnance operations
[AD-A058987] p0053 N79-12712

Investigation of techniques to reduce
electrostatic discharge susceptibility of EED's
containing plastic plugs
[AD-A059982] p0093 N79-15638

EXPOSURE

Assessment of human exposures to atmospheric benzene
[PB-284203/7] p0051 N79-12701

Developmental and hematological responses to low
level continuous exposure of nitrogen dioxide in
mice p0147 N79-19026

Electrophoresis pattern of serum from mice exposed
to different concentrations of sulfur dioxide
p0147 N79-19027

Radiation protection activities, 1977
[PB-290215/3] p0176 N79-21759

Radiofrequency radiation levels and population
exposure in urban areas of the eastern United
States
[PB-292855/4] p0241 N79-26779

Direct exposure of monolayers of mammalian cells
to airborne pollutants in a unique culture system
[AD-A069822] p0283 N79-31897

Effects on populations of exposure to low levels
of ionizing radiation: Implications for nuclear
energy and medical radiation
[LBL-9084] p0316 N79-33833

EXTENSIONS

Concept definition for an extended duration
orbiter ECLSS
[NASA-CR-160164] p0197 N79-23666

EXTRAGALACTIC LIGHT

U EXTRATERRESTRIAL RADIATION

U LIGHT (VISIBLE RADIATION)

EXTRATERRESTRIAL ENVIRONMENTS

NT JUPITER ATMOSPHERE

NT MARS ENVIRONMENT

NT PLANETARY ATMOSPHERES

NT PLANETARY ENVIRONMENTS

Development opportunities in the space environment
p0095 N79-15897

EXTRATERRESTRIAL INTELLIGENCE

The physical appearance of intelligent aliens
p0105 A79-24519

Extraterrestrial intelligence research
[GPO-35-355] p0094 N79-15645

EXTRATERRESTRIAL LIFE

On the reality of extraterrestrial biogenesis
[IAF PAPER 78-A-51] p0003 A79-11344

Public health considerations associated with a
Mars surface sample return mission
p0005 A79-12510

Biological implications of the Viking mission to
Mars
p0045 A79-14595

Lifecloud: The origin of life in the universe ---
Book
p0061 A79-17123

The Viking biological investigations - Review and
status
p0100 A79-22083

Chemical fingerprints of life in terrestrial soils
and their possible use for the detection of life
on Mars and other planets
p0136 A79-27929

A review of recent concepts of the problem of the
origin of life
p0221 A79-36041

Solar-driven chemical energy source for a Martian
biota
p0254 A79-46464

Some comments on interpretations of Viking
biological experiments
p0255 A79-46465

Publications of the planetary biology program for
1978: A special bibliography
[NASA-TM-80745] p0319 N79-33854

EXTRATERRESTRIAL RADIATION

NT GALACTIC RADIATION

NT SOLAR RADIATION

NT SUNLIGHT

Space radiation dosimetry onboard COSMOS 936: US
portion of experiment K-206
p0023 N79-11677

EXTRAVEHICULAR ACTIVITY

Manned alignment of structural components in space
[AIAA PAPER 79-0535] p0129 A79-25855

Construction in space - Toward a fresh definition
of the man/machine relation
p0187 A79-34985

The biomedical implications of extended duration
zero-g extravehicular activities
[IAF PAPER 79-ST-06] p0303 A79-53447

Physiologicohygienic and ergonomic aspects of
Salyut 6 cosmonauts extravehicular activity /EVA/
p0303 A79-53486

Manned maneuvering unit: User's guide
[NASA-CR-151864] p0113 N79-16553

Simulated EVA operation of a remote connector
assembly test report
[NASA-CR-161167] p0156 N79-19687

Probability of caisson disease while wearing a
space suit when exiting from a spacecraft with

- an atmosphere close to that of earth p0244 N79-27826
- EXTRAVEHICULAR MOBILITY UNITS**
NT ASTRONAUT LOCOMOTION
NT ASTRONAUT MANEUVERING EQUIPMENT
- EXTREMA**
G RANGE (EXTREMES)
EYE (ANATOMY)
NT CORNEA
NT FOVEA
NT NYSTAGMUS
NT OCULOMOTOR NERVES
NT PUPILS
NT RETINA
Light flashes in space --- cosmic ray interaction with astronaut visual system p0100 A79-22261
- Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image p0100 A79-22771
- Hyper-resolution in human perception of movement in visual displays p0132 A79-26240
- Extrapolation of pulsed light data in scanned displays --- laser radiation eye exposure limits p0138 A79-28170
- Low level laser light effects --- on vision p0138 A79-28171
- Survey on eye comfort in aircraft. I - Flight attendants p0165 A79-30665
- Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II p0166 A79-31178
- A bioengineering simulator of the human visual apparatus p0166 A79-31180
- Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries p0183 A79-33632
- Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
- The visual perception of motion in depth p0210 A79-39087
- Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
- Changes in critical duration during dark-adaptation p0304 A79-54252
- Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- Contrast sensitivity of the human eye to various display phosphor types [AD-A058383] p0056 N79-13695
- The physiological significance of light for human beings [RAE-LIB-TRANS-1976] p0077 N79-14757
- The want and feasibility to temper sunlight for the eyes [IZF-1977-21] p0122 N79-17538
- Official method for determining ocular irritation [BLR-RTS-11221] p0142 N79-18571
- Contrast sensitivity of the human visual system at one luminance level while adapted to a stimulus at another luminance level [AD-A064370] p0190 N79-22759
- Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation p0192 N79-23632
- Intraocular pressure reduction and regulation system [NASA-TM-79187] p0260 N79-28881
- The limited range of the human eye for optical aircraft acquisition p0291 N79-31948
- Contribution to the theory of photopic vision: Retinal phenomena [NASA-TM-75507] p0315 N79-33823
- Measurements in the laser irradiated eye [AD-A069842] p0315 N79-33825
- EYE DISEASES**
NT GLAUCOMA
NT HYPEROPIA
- EYE DOMINANCE**
The perceived direction of the binocular image p0104 A79-24069
- A further investigation of visual dominance p0186 A79-33949
- EYE EXAMINATIONS**
NT ELECTRONYSTAGMOGRAPHY
Visual acuity of the aging hyperopic eye in the intermediate range p0037 A79-13198
- Correlation of binocular vision test results with synaptophore evaluation p0201 A79-37136
- The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil p0210 A79-39974
- Laser Doppler technique for measurement of eye movement p0233 A79-42450
- An analysis of the saccadic system by means of double step stimuli p0270 A79-49480
- The peripheral critical flicker frequency p0271 A79-49482
- Advanced transport operation effects on pilot scan patterns p0295 A79-51098
- Lightweight helmet-mounted eye movement measurement system p0303 A79-53516
- The retinal resolving power measured by laser interference fringes p0304 A79-54091
- Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449] p0056 N79-13698
- EYE MOVEMENTS**
NT ELECTRONYSTAGMOGRAPHY
NT NYSTAGMUS
NT SACCADIC EYE MOVEMENTS
Lateral orientation and cerebral activation - Considerations for information display p0037 A79-13194
- Selection and techniques for analysis of indices of visual data reception. II --- aircraft pilot eye movements p0047 A79-15494
- Effects of information processing requirements on reaction time of the eye p0064 A79-18219
- Visual target acquisition and ocular scanning performance p0069 A79-19000
- Eye movements and symmetry - Foundations for a quantitative analysis of eye movements as they depend on the structure of the perception field --- German thesis p0098 A79-20756
- Effect of alcohol and marijuana on eye movements p0101 A79-23469
- Linearization and sensitivity analysis of model for human eye movements p0102 A79-23783
- Choice and techniques of analysis of indices for the perception of visual information. III --- by pilots p0103 A79-23954
- Contrast effects on smooth-pursuit eye movement velocity p0104 A79-24068
- Velocity precision in smooth pursuit eye movements p0129 A79-25399
- Visual-vestibular interactions. I - Influence of peripheral vision on suppression of the vestibulo-ocular reflex and visual acuity p0135 A79-27552
- Smooth pursuit eye movements - Is perceived motion necessary p0139 A79-28375
- Information transmission during eye movements p0209 A79-38360
- Methodological considerations of visual workloads of helicopter pilots p0209 A79-38363

The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil p0210 N79-39974

The role of perceived motion in smooth pursuit eye movements p0225 A79-40184

The effect of expectations on slow oculomotor control. I - Periodic target steps. II - Single target displacements p0225 A79-40185

The influence of rapid prism adaptation upon fixation disparity p0231 A79-42230

Laser Doppler technique for measurement of eye movement p0233 A79-42450

Eye torsion and visual tilt are mediated by different binocular processes p0256 A79-46651

Spatial summation in human vision - Simple reaction time measurements p0265 A79-47115

Eye movements and visual perception --- Russian book p0267 A79-47429

Forms of oculomotor activity under conditions of positive visual feedback p0276 A79-50657

Lightweight helmet-mounted eye movement measurement system p0303 A79-53516

Optokinetic reactions in man elicited by localized retinal motion stimuli p0304 A79-54251

Eye torsion in response to a tilted visual stimulus p0305 A79-54254

Modeling of visual-vestibular interaction and the fast components of nystagmus p0050 N79-12692

Effects of information processing requirements on reaction time of the eye [AD-A060099] p0080 N79-14778

Lightweight helmet-mounted eye movement measurement system p0090 N79-15619

A relationship between eye movement patterns and performance in a precognitive tracking task p0116 N79-17490

Dynamic measurement of human cyclofusional eye movements p0142 N79-18575

A method for semi-automatic analysis of eye movements [DLR-MITT-79-02] p0283 N79-30946

EYE PROTECTION

Laser eye protection for flight personnel p0135 A79-27555

Test and evaluation in the acquisition process - A look at the PLZT goggle p0184 A79-33642

No harmful effects through infrared light emitting diodes p0184 A79-33650

Health and safety hazards associated with solar concentration systems p0200 A79-36628

Thermal effects during the exposure of ocular fundus tissues to laser radiation p0234 A79-43057

Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798

Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses p0266 A79-47330

Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0266 A79-47331

Laser eye protection for flight personnel, volume 1 [AD-A057417] p0034 N79-11747

The want and feasibility to temper sunlight for the eyes [IIR-1977-21] p0122 N79-17538

Sunglasses for drivers? [IIR-1977-24] p0122 N79-17539

EYEPIECES

Providing an eye separator on a color cathode tube --- enhancing visual acuity p0152 N79-19639

F**F-4 AIRCRAFT**

F-4J/N instructional system development: Phase 1 [AD-A061098] p0156 N79-19684

Air-to-air combat skills: Contribution of platform motion to inertial training [AD-A062738] p0173 N79-20743

Correlation of mechanism of extremity injury and aerodynamic factors in ejections from F-4 aircraft p0284 N79-31904

F-110 AIRCRAFT

U F-4 AIRCRAFT

F-15 AIRCRAFT

Biodynamic effects of canopy loss in the F-15 aircraft p0163 A79-30651

F-16 AIRCRAFT

Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics p0064 A79-18217

Application of learning curves of aircraft produced at more than one location to the F-16 lightweight fighter [AD-A065881] p0196 N79-23664

Application of biodynamic models to the analysis of F-16 canopy birdstrike p0285 N79-31911

Application of a structured decision process for proper inclusion of human resources in the design of a power unit support stand [AD-A069978] p0309 N79-32840

F-18 AIRCRAFT

The application of computer aided evaluative techniques to system test and evaluation --- of fighter aircraft pilot performance p0036 A79-13190

System operability - Concept and measurement in test and evaluation --- man system compatibility indices in F-18 aircraft example p0062 A79-18204

F-104 AIRCRAFT

Oculogravie illusion in response to straight-ahead acceleration of a CF-104 aircraft p0164 A79-30660

F-111 AIRCRAFT

Spinal injuries in the F/FB-111 crew escape system p0274 A79-49996

FABRICATION

NT SPACE MANUFACTURING

FABRICS

Development of integrated tubing fabric for liquid conditioning undergarments p0044 A79-14415

Bioassay of thermal protection afforded by candidate flight suit fabrics p0298 A79-52280

Evaluation of four thermally protective fabrics using the USAARL bioassay method [AD-A067351] p0223 N79-25762

FABRY-PEROT LASERS

U LASERS

FACE (ANATOMY)

Development of a specialized head/face protective device for test parachuting operations p0045 A79-14437

Field evaluation of experimental crash-crew firefighter's facepiece [AD-A066544] p0223 N79-25765

FACTOR ANALYSIS

Vigilance and electroencephalogram --- human performance in compensatory target tracking p0100 A79-22975

Analysis of electroencephalogram during psychomotor performance p0209 A79-38820

Time-sharing ability in complex performance: An expanded replication [FAA-AM-78-33] p0145 N79-18591

A study of some of the factors influencing the left ventricular diastolic pressure-volume relationship and myocardial metabolism p0154 N79-19674

FAILURE	
NT SYSTEM FAILURES	
The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems --- sensitivity of operators versus monitors to failures	p0087 N79-15596
FAILURE ANALYSIS	
Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730]	p0282 N79-30942
FAIRCHILD MILITARY AIRCRAFT	
U MILITARY AIRCRAFT	
FAIRCHILD RADIATION	
Millimeter wave and far infrared absorption in biological systems	p0082 N79-15554
FAST FOURIER TRANSFORMATIONS	
Computerized clinical electroencephalography in perspective	p0226 A79-40648
FAST NEUTRONS	
Atmospheric neutrons [NASA-CR-3126]	p0211 N79-24631
FATIGUE (BIOLOGY)	
NT FLIGHT FATIGUE	
NT MUSCULAR FATIGUE	
The assessment of rotary wing aviator precision performance during extended helicopter flights	p0040 A79-13221
How does the saccadic eye movement controller adapt for pathological states	p0046 A79-14961
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances	p0127 A79-24628
Saccadic velocity characteristics - Intrinsic variability and fatigued	p0165 A79-30663
Characteristics of somatic and autonomic regulation during work of small muscle groups as a function of loading regime	p0276 A79-50653
Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888]	p0055 N79-13692
Minuteman missile crew fatigue and 24-hour alerts [AD-A056561]	p0056 N79-13696
Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971]	p0080 N79-14774
Effects of fatigue on human behavior and performance. A bibliography with abstracts [NTIS/PS-79/0071/5]	p0177 N79-21762
Stress and fatigue in the driving environment --- physiological and psychological effects of heat and noise experienced inside automobiles	p0211 N79-24629
FATIGUE TESTS	
Physical testing of polymers use in circulatory assist devices [PB-286129/2]	p0084 N79-15579
Evaluation of the Sierra Engineering Company lightweight helmet [AD-A061799]	p0157 N79-19689
FATS	
Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart	p0239 N79-26766
Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart	p0239 N79-26767
FATTY ACIDS	
NT ACETIC ACID	
Effects of dietary fats on atherosclerosis and thrombosis	p0240 N79-26776
FEASIBILITY ANALYSIS	
A safety margin and flight reference system and display for powered-lift aircraft	p0090 N79-15614
FECEES	
Automated biowaste sampling system feces monitoring system [NASA-CR-160301]	p0281 N79-30937
FEDERAL REPUBLIC OF GERMANY	
U GERMANY	
FEEDBACK	
NT SENSORY FEEDBACK	
A model of human decisionmaking in fault diagnosis tasks that include feedback and redundancy	p0163 A79-30222
Evaluation of biofeed therapy [PB-287777/7]	p0123 N79-17543
A discrete parameter model of the head and neck with neuromuscular feedback	p0211 N79-24627
FEEDBACK CONTROL	
Simulation and control of a human temperature regulation system	p0041 A79-13613
Augmented feedback in adaptive motor skill training	p0062 A79-18208
Biped stability considerations with vestibular models	p0066 A79-18287
Transfer of landing skill after training with supplementary visual cues	p0138 A79-28167
A rationale for human operator pulsive control behavior	p0186 A79-34520
Pilot-optimal augmentation of the air-to-air tracking task [IAIA 79-1747]	p0252 A79-45388
A structural model of the adaptive human pilot [IAIA 79-1784]	p0252 A79-45411
Closed loop models for analyzing the effects of simulator characteristics --- digital simulation of human operators	p0087 N79-15598
The effects of closed loop tracking on a subjective tilt threshold in the roll axis	p0090 N79-15620
The effects of deviate internal representations in the optimal model of the human operator	p0114 N79-17477
A dual-loop model of the human controller	p0115 N79-17480
Evaluation of clinical biofeedback [PB-287776/9]	p0123 N79-17544
Investigations of respiratory control systems simulation [NASA-CR-160213]	p0218 N79-25726
FEEL	
U SENSORY FEEDBACK	
FEMALES	
Response of women mountaineers to maximal exercise during hypoxia	p0234 A79-43201
Considerations associated with the introduction of female crewmembers in spacecraft and space stations [IAAF PAPER 79-A-22]	p0303 A79-53424
Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill	p0024 N79-11681
Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study [NASA-SP-430]	p0054 N79-13686
A comparison of the physiological responses in young men and women to heat and cold stress [AD-A061024]	p0155 N79-19679
Masculinity, femininity, androgyny. What really works at work [AD-A061177]	p0156 N79-19683
Urine collection apparatus [NASA-CASE-MSC-18381-1]	p0195 N79-23657
Air Force female pilots program: Initial performance and attitudes [AD-A065641]	p0241 N79-26783
Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600]	p0290 N79-31939
FEMUR	
Changes in properties of rat femur as a result of crural exarticulation and hypokinesia	

FERMENTATION

SUBJECT INDEX

FERMENTATION	p0108 N79-16522	[AD-A066193]	p0223 N79-25763	
Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution	p0205 A79-37968	Medical and operational factors of accidents in advanced fighter aircraft	p0290 N79-31944	
PERMIONS				
NT FAST NEUTRONS				
FEVER				
Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon dioxide production during fever and its relationship with heat production [NASA-TM-75452]	p0211 N79-24632	Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force	p0290 N79-31945	
FFT				
U FAST FOURIER TRANSFORMATIONS				
FIBERS				
A porcine bioassay study of the physiological effects of fiber and dye degradation products (FDP) on burn wound healing [AD-A066990]	N79-25748	FILTRATION		
PIBRIN		NT SPATIAL FILTERING		
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen	p0164 A79-30655	FINGERS		
FIBRINOGEN		Object-handling system for manual industry	p0101 A79-23464	
An investigation to determine the effect of physical conditioning upon fibrinolytic reactivity in normal young men	p0110 N79-16536	Hemodynamics in teenagers and asthmatic children during exercise	p0133 A79-27102	
FIBROBLASTS				
NT COLLAGENS				
FIBROUS MATERIALS				
U FIRERS				
FIELD STRENGTH				
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PR-290944/8]	N79-25750	FIRE CONTROL		
FIGHTER AIRCRAFT		Pilot-optimal augmentation of the air-to-air tracking task	p0252 A79-45388	
NT F-4 AIRCRAFT		[AIAA 79-1747]		
NT F-15 AIRCRAFT		Human factors evaluation of the AN/UQO-21 display console	p0020 N79-10743	
NT F-18 AIRCRAFT		[AD-A056383]	Visual effects of helicopter maneuvre on weapon aiming performance	p0150 N79-19626
NT F-104 AIRCRAFT				
NT F-111 AIRCRAFT				
NT JAGUAR AIRCRAFT				
Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22]	p0007 A79-12571	FIRE DAMAGE		
Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit	p0038 A79-13205	Effect of fiber and dye degradation products /FDP/ on burn wound healing	p0298 A79-52277	
Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits	p0039 A79-13213	FIRE FIGHTING		
A Canadian approach to high altitude protection -- fighter pilot garmentry and high pressure masks	p0045 A79-14435	Firefighters Integrated Response Equipment System		
U.S. Navy development of an on-board oxygen generation /OBOG/ system	p0183 A79-33634	[ASME PAPER 78-ENAS-39]	p0009 A79-12586	
Aerobiotelemetry from a fighter aircraft	p0200 A79-37131	Protective clothing and equipment for firefighters: Current standards and practices	p0113 N79-16557	
Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet fighter	p0209 A79-38821	Aluminized firefighters' crash-rescue protective hood: Facepiece-visor redesign study	p0223 N79-25764	
Prediction, evaluation, and specification of flying qualities by means of step target tracking	p0088 N79-15604	Field evaluation of experimental crash-crew firefighter's facepiece	p0223 N79-25765	
Optimisation of pilot capability and avionic system design [AGARD-AR-118]	p0113 N79-16560	Insulated firefighters' crash-crew rescue boots and components: Field and laboratory evaluation	p0262 N79-29795	
Optimisation of pilot capability and avionic system design, introduction	p0113 N79-16561	FIRE PREVENTION		
The design of air combat aircraft	p0114 N79-16566	Evaluation of four thermally protective fabrics using the USAARL bioassay method		
An adaptive controller which displays human operator limitations for a fighter type aircraft	p0177 N79-21767	[AD-A067351]	p0223 N79-25762	
Application of learning curves of aircraft produced at more than one location to the F-16 lightweight fighter [AD-A065881]	p0196 N79-23664	Aluminized firemen's (fire proximity) handwear: Redesign of experimental prototype	p0290 N79-31940	
An adaptive controller which displays human operator limitations for a fighter type aircraft		[AD-A069895]	p0153 N79-19662	
		FIREES		
		Arousal from sleep by emergency alarms: Implications from the scientific literature		
		[PB-284044/5]	p0051 N79-12700	
		Human responses to fire: Three designs for research	[PB-284959/4]	
		p0058 N79-13708	Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis	
		p0153 N79-19662		
		FISH		
		U FISHES		
		FISHES		
		Killfish development in zero-G on COSMOS 782: Fundulus experiment K-104	p0021 N79-11659	
		The application of remote sensors to a model for fish mapping	[INPE-1379-PE/176]	
		p0071 N79-14712	Methods for measuring the acute toxicity of effluents to aquatic organisms	
		p0170 N79-20719	[PB-299605/8]	
		FISHTAILING		
		U YAW		
		FITNESS		
		NT FLIGHT FITNESS		
		NT PHYSICAL FITNESS		
		FITTING		
		The fitting of Canadian Forces aircrew helmets - Why the difference	p0184 A79-33645	
		FIXED WINGS		
		In-flight toxicology of fixed and rotary wing aircraft crew stations		
		p0149 N79-19619		
		FIXED-WING AIRCRAFT		
		U FIXED WINGS		

PLANE RETARDANTS	p0038 A79-13205
Effect of fiber and dye degradation products /PDP/ on burn wound healing	
FLAP CONTROL	p0298 A79-52277
U AIRCRAFT CONTROL	
FLASH BLINDNESS	
Restoration of color perception after deadapting flashes	
FLAW DETECTION	p0193 N79-23640
7 NONDESTRUCTIVE TESTS	
PLEXING	
Simulation of head and neck response to -G sub x and +G sub z impacts	
PLEXURE	p0285 N79-31908
U FLEXING	
FLICKER	
Primate cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram	
FLICKER FUSION FREQUENCY	p0104 A79-24065
U CRITICAL FLICKER FUSION	
FLIGHT ALTITUDE	
The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight	
FLIGHT CLOTHING	p0038 A79-13204
USAF life support equipment costs	
Development of integrated tubing fabric for liquid conditioning undergarments	
The helmet protects the aviator's head - Or does it	
An assessment of the RAE Type 'B' full pressure suit automatic head enclosure	
Development of the Air Force S-1030 full pressure suit assembly	
Joint testing of the RAF high altitude protective ensemble	
Development of a specialized head/face protective device for test parachuting operations	
An overview of helicopter mission specific survival equipment	
Aircrew helmet protection against potential cerebral concussion in low-magnitude impacts	
Prediction of body temperatures during exercise in flying clothing	
Bioassay of thermal protection afforded by candidate flight suit fabrics	
Cold water survival suits for aircrew	
Development of the CWG-48/P high temperature resistant aramid knit flyer's coverall [AD-A059128]	
Visual and optical assessment of gas protective face masks	
Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis	
Evaluation of four thermally protective fabrics using the USAFRL bioassay method [AD-A067351]	
FLIGHT COMPUTERS	
U AIRBORNE/SPACEBORNE COMPUTERS	
FLIGHT CONDITIONS	
Influence of orbital flight conditions on formation of genitals in Muscari racemosum and Anethum graveolens	
FLIGHT CONTROL	p0230 A79-41718
U AUTOMATIC FLIGHT CONTROL	
Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit	
FLIGHT CREWS	
Refinement of a computer simulation model for evaluating DAIS display concepts --- Digital Avionics Information System	
NASA flight management research	
Experimental and psychological investigations in aviation and astronautics --- Russian book	
Increasing pilot's performance capacity during flight through use of a control element serving as information carrier [DGLR PAPER 78-152]	
Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control	
Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite.	
Pilot-optimal augmentation synthesis	
Pilot decision making in a computer-aided flight management situation	
Error rate information in attention allocation pilot models	
An adaptive controller which displays human operator limitations for a fighter type aircraft [AD-A066193]	
Multipurpose digital switching and flight control workload [AD-A069606]	
Adaptive estimation of information values in continuous decision making and control of advanced aircraft [AD-A069741]	
FLIGHT CREWS	p0282 N79-30941
NT SPACECREWS	
NASA flight management research	
Coordinated crew performance in commercial aircraft operations	
Recurrent training/supernumerary system	
Air Combat Maneuvering Range /ACMR/ - Has operational performance measurement entered a Golden Age	
Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His --- neural activity effects on heart block	
Pneumothorax and flight personnel --- incidence, etiology and treatment	
Psychosis in air force flight personnel during the last 25 years	
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel	
Army Aviation Training - Research now and then [SAE PAPER 781008]	
Laser eye protection for flight personnel	
Age trends in the cardiovascular dynamics of aircrewmen	
Paroxysmal disorders of consciousness due to flight factors	
Survey on eye comfort in aircraft. I - Flight attendants	
Investigation of psychological compatibility of crew members of multiseat aircraft	
Incidence of cardiovascular problems among flying personnel and their evaluation	
Ensuring medical fitness on entry and during service in aircrew in IAF	

- Accident injuries and flying fitness p0182 N79-33189
 Ageing and flying fitness p0182 N79-33190
 Electrocardiographic abnormalities in Air Force personnel p0182 N79-33191
 Disability pattern amongst civil aircrew p0182 N79-33192
 Human error accidents - Some case studies --- for aircraft p0183 N79-33193
 An overview of helicopter mission specific survival equipment p0183 N79-33625
 Current trends in UK military aircREW survival equipment p0183 N79-33633
 Improved headgear for fixed wing Navy aircREWmen p0184 N79-33641
 The fitting of Canadian Forces aircREW helmets - Why the difference p0184 N79-33645
 Positive pressure breathing as a protective technique in +Gz acceleration p0201 N79-37132
 Fighter index of thermal stress /FITS/ - guidance for hot-weather aircraft operations p0202 N79-37715
 Sources of noise stress on flying personnel p0227 N79-41169
 Hyperventilation in aircREW - A review p0235 N79-43212
 Cockpit thermal stress and aircREW thermal strain during routine Jaguar operations p0266 N79-47334
 Spinal injuries in the F/PB-111 crew escape system p0274 N79-49996
 Automatic audiometry in the practice of flight-personnel examination p0295 N79-51084
 Cold water survival suits for aircREW p0298 N79-52282
 Effects of vibration and noise on some indices of efficiency of MI-4 helicopter crews p0015 N79-10711
 Prospective Medicine Opportunities in Aerospace Medicine --- conferences [AGARD-CP-231] p0026 N79-11692
 Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircREWmen p0027 N79-11699
 Psychosocial aspects of syncope and vertigo in aircREW p0027 N79-11701
 Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0028 N79-11705
 Detection of coronary artery disease in apparently healthy, asymptomatic aircREW members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
 Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715
 Effect of age on relaxed +G sub z tolerance of aircREWmen p0030 N79-11719
 The impact of coronary vascular risk factors on professional aircREW license loss in the United Kingdom p0031 N79-11724
 Cardiovascular diseases as a cause of unfitness for flying service in aircREWS of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention p0031 N79-11725
 Study of crew task loading on the C-141A aircraft [AD-A057346] p0034 N79-11746
 AircREW personnel restraint subsystems definition of deficiencies and requirements [AD-A058995] p0053 N79-12711
 AircREW inflight physiological data acquisition system 2 [AD-A0556381] p0055 N79-13690
 Fighter index of thermal stress: Development of interim guidance for hot-weather USAF operations [AD-A053471] p0056 N79-13699
- Development of the CWU-48/P high temperature resistant aramid knit flyer's coverall [AD-A059128] p0059 N79-13716
 A survey of existing computer programs for aircREW workload assessment [AD-A058518] p0059 N79-13718
 Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
 Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight and on effectiveness of assimilation of flight training program p0074 N79-14735
 A simulator study of the interaction of pilot workload with errors, vigilance, and decisions [NASA-TM-78482] p0079 N79-14769
 Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521] p0081 N79-14780
 Lightweight helmet-mounted eye movement measurement system p0090 N79-15619
 Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
 A review of individual performance in air-to-ground target detection and identification studies [AD-A061580] p0124 N79-17551
 Characteristics of medically disqualified airmen applicants in calendar years 1975 and 1976 [FAA-AM-78-25] p0144 N79-18582
 Backache in UH-1D helicopter crews p0149 N79-19620
 Evaluation of aircREW fatigue during operational helicopter flight mission p0149 N79-19622
 Implementation of a divisional aviation program to decrease flight crew fatigue p0150 N79-19624
 TADRAP: A computer-aided technique for reducing aircREW task analysis data --- helicopter design considering human factors p0150 N79-19628
 A system of training in aviation physiology and human factors for Army and Navy helicopter aircREW p0151 N79-19635
 The effective acoustic environment of helicopter crewmen p0152 N79-19645
 F-4J/N instructional system development: Phase 1 [AD-A061098] p0156 N79-19684
 Evaluation of the Sierra Engineering Company lightweight helmet [AD-A061799] p0157 N79-19689
 AircREW modularized inflight data acquisition system [AD-A064725] p0190 N79-22766
 Survival and protection of aircREW in the event of accidental immersion in cold water [AGARD-AG-211(ENG)] p0196 N79-23661
 The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +Gsub z acceleration [FPRC-1362] p0248 N79-27856
 The effect of acceleration and seat back angle on performance of a reaction time task [FPRC-1364] p0248 N79-27857
 The influence of seat back angle on acceleration tolerance [FPRC-1365] p0248 N79-27858
 A human body and crew station modelling system for motion studies p0287 N79-31922
 Progress in measuring and modeling the effects of low frequency vibration on performance p0288 N79-31930
- FLIGHT FATIGUE**
- Evaluation of aircREW fatigue during operational helicopter flight mission p0149 N79-19622
 Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
 Implementation of a divisional aviation program to decrease flight crew fatigue p0150 N79-19624

- US Army aviation fatigue-related accidents, 1971-1977
[AD-A062486] p0171 N79-20725
- FLIGHT FITNESS**
- Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission [DGLR PAPER 78-134] p0042 A79-14084
- Aviation-medicine appraisal as part of the fitness regulations in transportation p0129 A79-25373
- Ensuring medical fitness on entry and during service in aircrew in IAF p0182 A79-33187
- Obesity and flying fitness p0182 A79-33188
- Accident injuries and flying fitness p0182 A79-33189
- Ageing and flying fitness p0182 A79-33190
- Disability pattern amongst civil aircrew p0182 A79-33192
- Evaluation of physiological indices during preflight medical examination of pilots p0188 A79-35138
- Influence of Beta-Blockade on asymptomatic ST-T wave changes - A follow up study p0201 A79-37137
- Reproducibility of +Gz tolerance testing p0267 A79-47337
- Radiological diagnosis of spinal injuries and deformities p0272 A79-49735
- Assessment of spinal disabilities in relation to flying p0272 A79-49736
- Automatic audiometry in the practice of flight-personnel examination p0295 A79-51084
- Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80] p0301 A79-53288
- Preliminary selection of candidates for space flights [IAF PAPER 79-83] p0302 A79-53289
- Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol [AD-A059412] p0084 N79-15577
- Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
- Radiological examination of the Rachis and fitness for employment as a helicopter pilot p0151 N79-19634
- Technical evaluation report on the Aerospace Medical Panel London Specialists' Meeting, Fall 1977 --- disease prevention, flight fitness, and findings in cardiology and pulmonary function [AGARD-AR-131] p0171 N79-20729
- Prospective medicine opportunities in aerospace medicine p0171 N79-20730
- Specific findings in cardiology and pulmonary function with special emphasis on assessment criteria for flying p0171 N79-20731
- Three decades of USAF efforts to reduce human error accidents, 1947-1977 p0290 N79-31943
- FLIGHT HAZARDS**
- Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving p0010 A79-12866
- Pilot incapacity in flight p0291 N79-31950
- FLIGHT INSTRUMENTS**
- NT APPROACH INDICATORS
- NT AUTOMATIC PILOTS
- Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller [DGLR PAPER 78-149] p0042 A79-14094
- Helicopter night operations - Feasibility and impact on the overall system --- helmet mounted FLIR detectors and image intensifier goggles p0048 A79-16235
- An analysis of helicopter pilot control behavior and workload during instrument flying tasks p0150 N79-19630
- FLIGHT OPERATIONS**
- NT CREW PROCEDURES (INFLIGHT)
- FLIGHT RULES
- NT INSTRUMENT FLIGHT RULES
- FLIGHT SAFETY
- USAF life support equipment costs p0043 A79-14402
- Application of performance model to assess aviator critical incidence p0063 A79-18209
- Current role of alcohol as a factor in civil aircraft accidents p0136 A79-27561
- USAF life support system 412A - 1978 corporate report p0183 A79-33602
- Oral/nasal breathing systems in the year 2000 p0183 A79-33621
- Aircrew helmet protection against potential cerebral concussion in low-magnitude impacts p0201 A79-37705
- Ejection problems and injuries - Their causes, effects and treatments, and suggestions for preventive measures p0267 A79-47338
- Psychological training - One of the most important factors of enhancing the safety of space flights [IAF PAPER 79-A-24] p0303 A79-53426
- Prospective Medicine Opportunities in Aerospace Medicine --- conferences [AGARD-CP-231] p0026 N79-11692
- A safety margin and flight reference system and display for powered-lift aircraft p0090 N79-15614
- Implementation of a divisional aviation program to decrease flight crew fatigue p0150 N79-19624
- Disorientation in Royal Naval helicopter pilots p0152 N79-19648
- Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight p0152 N79-19649
- FLIGHT SIMULATION**
- Piloted aircraft simulation - Advantages, disadvantages, and practical problems [SAE PAPER 780548] p0001 A79-10407
- The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight p0038 A79-13204
- Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits p0039 A79-13213
- The multiloop concept of the pilot work load as a basis of future experiments and studies [ONERA, TP NO. 1978-10] p0045 A79-14795
- Time estimation as a technique to measure workload --- of aircraft pilot in flight simulation p0062 A79-18203
- Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
- Recent studies of simulation training effectiveness [SAE PAPER 781006] p0130 A79-25888
- Windshield quality and pilot performance measurement utilizing computer-generated imagery p0137 A79-28165
- Training effectiveness versus simulation realism p0138 A79-28166
- Transfer of landing skill after training with supplementary visual cues p0138 A79-28167
- Helicopter commands at the touch of a hand [AHS 79-13] p0270 A79-49066
- Synthetic training and evaluation - Some current issues p0275 A79-50550
- Technique for simulating G-induced tunnel vision p0299 A79-52286
- Lightweight helmet-mounted eye movement measurement system p0303 A79-53516
- Dynamics of impairment of pilot performance in the presence of hypoxia

- p0073 N79-14724
- Vestibular influences on other sensory and motor processes --- human performance in flight simulation studies p0094 N79-15893
 [AD-A0614771] p0125 N79-17561
- Vestibular models and thresholds of motion perception. Result of tests in a flight simulator [VTH-LR-265] p0146 N79-18595
- Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- Airline pilot scan patterns during simulated ILS approaches [NASA-TP-1250] p0155 N79-19682
- Air-to-air combat skills: Contribution of platform motion to inertial training [AD-A062738] p0173 N79-20743
- User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735
- Flight simulator training, volume 2. A bibliography with abstracts [NTIS/PS-79/0277/8] p0222 N79-25758
- Sensory mechanism modeling [AD-A069439] p0262 N79-29796
- Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view [AD-A070231] p0308 N79-32832
- A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system [AD-A070912] p0309 N79-32841
- FLIGHT SIMULATORS**
- NT COCKPIT SIMULATORS**
- Flight management research utilizing an oculometer --- pilot scanning behavior during simulated approach and landing p0001 A79-10389
- A computer-based simulator simulator --- computer-assisted pilot training p0039 A79-13215
- AWAVS, a research facility for defining flight trainer visual system requirements p0062 A79-18207
- A visual simulator with transformation of the perspective in the raster of television pictures --- German book on pilot training systems p0069 A79-19375
- Psychologists vs engineers --- flight simulators training requirements p0132 A79-26499
- Visual system for the Boom Operator Part Task Trainer --- KC-135 aerial refueling task simulator p0137 A79-28162
- Component performance of a 360 deg non-programmed visual display --- laser image flight simulator p0137 A79-28163
- The holographic Pancake Window --- magnifier for flight simulation display p0138 A79-28172
- Predictive validity of flight simulators as a function of simulator motion p0181 A79-32627
- Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
- The relationship between flight simulator motion and training requirements p0267 A79-47766
- Soviet civil aviation training programs p0270 A79-49221
- Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
- Subjective motion discrimination in the simulator for air-to-air combat [AD-A059742] p0079 N79-14770
- A model for the pilot's use of roll-axis motion cues in steady-state tracking tasks [AD-A059504] p0079 N79-14772
- The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776
- Influence of motion wash-out filters on pilot tracking performance
- [NLR-MP-78005-U] p0124 N79-17554
- Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- Aviator visual performance: A comparative study of a helicopter simulator and the UH-1 helicopter p0153 N79-19652
- Stress and simulation in pilot training [AD-A066670] p0222 N79-25757
- Flight simulator training, volume 2. A bibliography with abstracts [NTIS/PS-79/0277/8] p0222 N79-25758
- Helmet weight simulator [NASA-CASE-LAR-12320-1] p0223 N79-25761
- A lower body negative pressure box for +Gz simulation in the upright seated position [AD-A069326] p0259 N79-28868
- Effects on A-6E bombardier/navigator flight training with the introduction of device 2F114, A-6E weapon system trainer [AD-A068607] p0289 N79-31933
- Advanced training features: Bridging the gap between in-flight and simulator-based models of flying training [AD-A068142] p0289 N79-31934
- FLIGHT STRESS**
- The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204] p0055 N79-13693
- FLIGHT STRESS (BIOLOGY)**
- NT SPACE FLIGHT STRESS
- Case report - Intracardial gas bubbles in relation to altitude decompression chokes p0011 A79-12871
- Physiological biorhythm as a correlate of pilot error accidents and incidents p0065 A79-18228
- Speed and load stress as determinants of performance in a time sharing task p0068 A79-18999
- Physiological aspects of flight --- Book p0134 A79-27298
- Paroxysmal disorders of consciousness due to flight factors p0161 A79-29300
- Oculographic illusion in response to straight-ahead acceleration of a CF-104 aircraft p0164 A79-30660
- Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness p0165 A79-30662
- Physiologic and performance measurements in simulated airborne combined stress environments p0202 A79-37710
- Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714
- Fighter index of thermal stress /FITS/ - guidance for hot-weather aircraft operations p0202 A79-37715
- Sources of noise stress on flying personnel p0227 A79-41169
- The vestibule and flying --- pilot disorientation p0255 A79-46598
- Aero Medical Society of India, Annual Meeting, 21st, Bangalore, India, December 15, 16, 1978, Proceedings p0271 A79-49726
- Design, fabrication and utility of a flight oriented performance test p0271 A79-49728
- In-flight measures of stress reduction due to wearing expandable foam earplugs p0273 A79-49986
- Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAP PAPER 79-76] p0301 A79-53285
- Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720
- Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- Quantification and validation of percept-genetic defense mechanism. A hierarchical analysis of

- behavior of pilots under stress
[FOA-C-55020-R6] p0124 N79-17555
- Human exposure to mechanical vibration at lying posture in the ambulance helicopter UH-1D p0149 N79-19617
- Backache in UH-1D helicopter crews p0149 N79-19620
- Prediction of whole-body response to impact forces in flight environments p0284 N79-31902
- Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles p0286 N79-31917
- Medical and operational factors of accidents in advanced fighter aircraft p0290 N79-31944
- Between incident and accident p0292 N79-31953
- FLIGHT SURGEONS**
- Psychiatric education in aerospace medicine p0202 A79-37712
- FLIGHT TECHNICAL ERROR**
- U PILOT ERROR
- FLIGHT TESTS**
- Joint testing of the RAF high altitude protective ensemble p0044 A79-14434
- Human factors considerations in establishing aircraft collision avoidance system alert thresholds p0045 A79-14438
- Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight p0047 A79-15491
- Flight experience with manually controlled unconventional aircraft motions p0088 N79-15602
- FLIGHT TRAINING**
- NT SPACE FLIGHT TRAINING
- Transfer of a computer-assisted instrument procedures trainer to flight p0039 A79-13216
- Development of automated performance measures for introductory air combat maneuvers p0040 A79-13223
- Recurrent training/supernumerary system p0041 A79-13283
- Army Aviation Training - Research now and then [SAE PAPER 781008] p0130 A79-25890
- Universal airborne approach to pilot performance assessment [SAE PAPER 781009] p0130 A79-25891
- Training effectiveness versus simulation realism p0138 A79-28166
- The evaluation of a complex computer-based flight procedures trainer p0161 A79-29717
- Aeromedical aspects of flying training with special reference to instructor pupil relationship p0201 A79-37139
- Initial training and retraining of technical agricultural flight personnel p0227 A79-41166
- A7 training effectiveness through performance analysis -- carrier landing instruction [AD-A056230] p0031 N79-11728
- Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight and on effectiveness of assimilation of flight training program p0074 N79-14735
- A system of training in aviation physiology and human factors for Army and Navy helicopter aircrew p0151 N79-19635
- Training requirements for helicopter operation with night vision goggles p0153 N79-19650
- F-4J/N instructional system development: Phase 1 [AD-A061098] p0156 N79-19684
- Stress and simulation in pilot training [AD-A066670] p0222 N79-25757
- Air Force female pilots program: Initial performance and attitudes [AD-A065641] p0241 N79-26783
- Effects on A-6E bombardier/navigator flight training with the introduction of device 2P114, A-6E weapon system trainer [AD-A068607] p0289 N79-31933
- Advanced training features: Bridging the gap between in-flight and simulator-based models of flying training [AD-A068142] p0289 N79-31934
- Development of an objective grading system along with procedures and aids for its effective implementation in flight [AD-A071106] p0318 N79-33846
- FLIR DETECTORS**
- Helicopter night operations - Feasibility and impact on the overall system --- helmet mounted FLIR detectors and image intensifier goggles p0048 A79-16235
- Real-time reconnaissance systems simulator p0139 A79-28175
- Human factors aspects of low light level television and forward looking infrared sensor displays. I: A feasibility study of scaled subjective complexity of still scenes applied to computer image generation [AD-A058938] p0058 N79-13715
- FLORA**
- U PLANTS (BOTANY)
- FLOW CHARACTERISTICS**
- NT FLOW STABILITY
- NT FLOW VELOCITY
- FLOW MEASUREMENT**
- A fluid-mechanical study of the closure of heart valves p0161 A79-29540
- Specific problems in cardiovascular fluid dynamics measurements p0210 A79-39506
- Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers p0210 A79-39509
- Quantitative flow estimation with transcutaneous Doppler ultrasound p0295 A79-51042
- Density dependence of maximum expiratory flow p0050 N79-12691
- Techniques of measurement p0247 N79-27850
- FLOW RATE**
- U FLOW VELOCITY
- FLOW STABILITY**
- Lung mechanics: Dynamic response, acoustic generation, and flow limitation p0017 N79-10727
- FLOW VELOCITY**
- Quantitative flow estimation with transcutaneous Doppler ultrasound p0295 A79-51042
- A directional pulsed-Doppler ultrasonic blood flowmeter p0050 N79-12693
- Aortic blood flow velocity during exercise in man p0216 N79-25710
- FLOW VISUALIZATION**
- Noninvasive assessment of pulmonary hypertension [PB-285121/0] p0057 N79-13701
- FLOWMETERS**
- NT RFMETERS
- Ultrasonic doppler directional blood flow velocity meter [RAE-LIB-TRANS-1918] p0279 N79-30920
- FLUID DYNAMICS**
- Application of numerical methods to physiological flows --- Navier-Stokes equation, prosthetic heart valves and vasoconstriction p0146 N79-18945
- Physiological fluid dynamics [VKI-LECTURE-SERIES-32] p0247 N79-27843
- Respiration p0247 N79-27845
- Mechanics of arterial blood flow p0247 N79-27846
- FLUID FLOW**
- NT BLOOD FLOW
- NT CAPILLARY FLOW
- NT CAVITATION FLOW
- NT CONVECTIVE FLOW
- NT GAS FLOW
- NT UNSTEADY FLOW
- A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722

FLUID MECHANICS

SUBJECT INDEX

FLUID MECHANICS		
NT FLUID DYNAMICS		
NT HYDROSTATICS		
A fluid-mechanical study of the closure of heart valves	p0161 A79-29540	[PB-286000/5] p0083 N79-15570
FLUORESCENCE		
Applications of chlorophyll fluorescence transient measurements to the functional analysis of photosynthetic processes	p0243 N79-27813	The Department of the Army's food irradiation program: Is it worth continuing [PB-286399/1] p0094 N79-15644
FLUORESCENT EMISSION		
U FLUORESCENCE		
FLUORINE COMPOUNDS		
NT FLUOROPOLYMERS		
NT POLYTETRAFLUOROETHYLENE		
FLUORINE ORGANIC COMPOUNDS		
NT FLUOROPOLYMERS		
FLUORO COMPOUNDS		
NT FLUOROPOLYMERS		
NT POLYTETRAFLUOROETHYLENE		
FLUOROPOLYMERS		
NT POLYTETRAFLUOROETHYLENE		
Evaluation of fluoropolymer membranes in oxygenators [PB-286698/6]	p0112 N79-16547	Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 A79-43202
FLUOROSCOPY		
Real-time computerized fluoroscopic cardiac imaging	p0294 A79-51035	Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
FLUTTER		
Lung mechanics: Dynamic response, acoustic generation, and flow limitation	p0017 N79-10727	Effects of endogenous factors on the process of gas bubble formation in the body related to decompression p0015 N79-10713
FLUX DENSITY		
NT LUMINANCE		
NT LUMINOUS INTENSITY		
FLUX QUANTIZATION		
Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-H9]	p0124 N79-17556	FOREARM Hemodynamics in teenagers and asthmatic children during exercise p0133 A79-27102
FLUIMETERS		
U MEASURING INSTRUMENTS		
FLYING PERSONNEL		
NT AIRCRAFT PILOTS		
NT ASTRONAUTS		
NT COSMONAUTS		
NT FLIGHT CREWS		
NT PILOTS (PERSONNEL)		
NT SPACECREWS		
Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases	p0188 A79-35136	FORECASTING NT DELPHI METHOD (FORECASTING) NT PERFORMANCE PREDICTION NT PREDICTION ANALYSIS TECHNIQUES NT TECHNOLOGICAL FORECASTING Eye-ball control p0270 A79-49225
FLYING PLATFROM STABILITY		
U AERODYNAMIC STABILITY		
FOAMS		
A preliminary toxicological study of silastic 386 foam elastomer: catalyst [LA-7366-MS]	p0071 N79-14714	FOREIGN BODIES Official method for determining ocular irritation [BLL-RTS-11221] p0142 N79-18571
FOCUSING		
Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter	p0063 A79-18215	FOREIGN POLICY NT INTERNATIONAL COOPERATION FORESTS Dispersal of forest insects p0148 N79-19596
FOG		
Manual landings in Category 3 conditions	p0297 A79-52055	FORGING Nonionizing radiation protection special study: Infrared radiation hazard evaluation of the rotary forge, Watervliet Arsenal, Watervliet, New York, March - April 1978 [AD-A055643] p0055 N79-13691
FOOD		
A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4]	p0059 N79-13719	FORKS Perception U SPACE PERCEPTION FORMALDEHYDE Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums p0203 A79-37935
A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2]	p0059 N79-13720	FORMING TECHNIQUES NT FORGING FORWARD LOOKING INFRARED DETECTORS FOSSIL METEORITE CRATERS U FOSSILS FOSSILS Epimerization of L-isoleucine on Na-montmorillonite and its implication to Precambrian chemical fossils p0206 A79-37979
Nitrogen fixation with photosynthetic marine microorganisms		FOURIER ANALYSIS Piecewise Fourier analysis of images and the role of occipital, temporal and parietal cortex in visual perception p0160 A79-29248
FREE RADICALS		
NT HYDROXYL RADICALS		
FREEZE DRYING		
Mechanisms of deterioration of nutrients --- improved quality of freeze-dried foods [NASA-CR-160128]		FOURIER TRANSFORMATION NT FAST FOURIER TRANSFORMATIONS FOVEA Contribution to the theory of photopic vision: Retinal phenomena [NASA-TM-75507] p0315 N79-33823
FREEZING		
System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1]		FRACTURING Vertebral fractures in Gnat ejections p0201 A79-37134
		FREE RADICALS NT HYDROXYL RADICALS FREEZE DRYING Mechanisms of deterioration of nutrients --- improved quality of freeze-dried foods [NASA-CR-160128] p0156 N79-19686
		FREEZING System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1] p0013 N79-10694

FREQUENCIES		
NT AUDIO FREQUENCIES		
NT BROADBAND		
NT LOW FREQUENCIES		
NT MICROWAVE FREQUENCIES		
NT RADIO FREQUENCIES		
NT SUPERHIGH FREQUENCIES		
NT ULTRAHIGH FREQUENCIES		
FREQUENCY RESPONSE		
A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles	p0294	A79-51038
PRESNEL LENSES		
Application of Presnel lenses to virtual image display --- for training simulators	p0139	A79-28173
FRINGE PATTERNS		
U DIFFRACTION PATTERNS		
FROGS		
Ultrastructural development of the vestibular system of frog larvae in 0g simulation [IAP PAPER 79-78]	p0301	A79-53287
FROZEN FOODS		
Method and arrangement for the preparation of solid foodstuffs for long-term storage [BLL-RTS-11445]	p0145	N79-18590
Mechanisms of deterioration of nutrients --- improved quality of freeze-dried foods [NASA-CR-160128]	p0156	N79-19686
FUELS		
NT DIESEL FUELS		
NT JET ENGINE FUELS		
NT SYNTHETIC FUELS		
FUNCTIONAL ANALYSIS		
NT HARMONIC ANALYSIS		
A survey of existing computer programs for aircrew workload assessment [AD-A058518]	p0059	N79-13718
Applications of chlorophyll fluorescence transient measurements to the functional analysis of photosynthetic processes	p0243	N79-27813
The systemic principles of building a man-machine control staff --- functional analysis	p0249	N79-27861
FUNCTIONS (MATHEMATICS)		
NT DISCRETE FUNCTIONS		
NT NORMAL DENSITY FUNCTIONS		
NT PEARSON DISTRIBUTIONS		
NT TIME FUNCTIONS		
NT WEIGHTING FUNCTIONS		
FUNGI		
NT ASPERGILLUS		
NT SACCHAROMYCES		
NT SPORES		
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582]	p0071	N79-14711
Orenburg symposium on mycotoxins	p0175	N79-21749
Effects of different values of urine pH during long-term storage on microflora composition	p0194	N79-23643
FUSIFORM SHAPES		
U CONES		
F-8 AIRCRAFT		
U F-4 AIRCRAFT		
G		
G FORCE		
U ACCELERATION (PHYSICS)		
GAGES		
U MEASURING INSTRUMENTS		
GALACTIC EVOLUTION		
Chirality of compounds essential for the existence of life, and the possibility of its evolution in the universe	p0186	A79-34464
GALACTIC RADIATION		
Personnel neutron monitoring in space [NASA-CR-151865]	p0111	N79-16541
GALVANIC SKIN RESPONSE		
Skin-resistance measuring device with higher resolution	p0252	A79-45476
GAS EXCHANGE		
GAMMA GLOBULIN		
Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station	p0244	N79-27820
GAMMA RADIATION		
U GAMMA RAYS		
GAMMA RAYS		
3'-5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation	p0069	A79-19426
Role of n-aminobenzoic acid in repairing UV and gamma radiation damage	p0301	A79-53211
Changes in blood sugar content of dogs exposed to chronic gamma radiation for six years	p0014	N79-10706
Comparative analysis of causes of animal deaths during chronic exposure to gamma radiation and the aftereffect period	p0016	N79-10718
Spermatogenesis in dogs during many years of chronic exposure to gamma radiation and in the aftereffect period	p0073	N79-14727
Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation	p0312	N79-33804
GANGLIA		
NT NERVES		
NT NEURONS		
Enhancement of luminance flicker by color-opponent mechanisms	p0252	A79-44582
GAS ANALYSIS		
Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits	p0134	A79-27120
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen	p0164	A79-30655
Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft	p0072	N79-14720
GAS BAGS		
Design considerations for inflatable head/neck restraint systems	p0043	A79-14407
An inflatable restraint system --- for helicopter crash protection	p0044	A79-14408
GAS CHROMATOGRAPHY		
Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research	p0109	N79-16528
GAS COMPOSITION		
NT CARBON DIOXIDE CONCENTRATION		
GAS DENSITY		
The effect of the reduction of inspired gas density on external respiration	p0296	A79-51115
GAS DISCHARGE COUNTERS		
U COUNTERS		
GAS EVOLUTION		
Inverse assimilation - A general principle of evolution of planetary surfaces	p0207	A79-37989
GAS EXCHANGE		
Analysis of PCO_2 differences during rebreathing due to slow pH equilibration in blood	p0067	A79-18958
Cerebral gas exchange in rats adapted to hypoxia during inspiration of oxygen-poor mixtures	p0097	A79-20623
The role of lesser circulation hemodynamic changes in pulmonary gas exchange	p0300	A79-53066
Analysis of inert gas exchange in the middle ear	p0017	N79-10723
Gas exchange under environmental stress [AD-A058242]	p0056	N79-13697
External respiration and gas exchange reactions to exercise during rotation of man on a short-radius centrifuge	p0193	N79-23639
Energy expenditures of man during long exposure to a periodically changing atmosphere		

GAS FLOW

SUBJECT INDEX

p0312 N79-33799
 Adaptive optimization of exchange of gases in plants in a sealed phytotron p0313 N79-33806
 External respiration and gas exchange reactions of man during rotation on a short-arm centrifuge p0313 N79-33812
GAS FLOW
 Respiration p0247 N79-27845
GAS GENERATOR ENGINES
 U ENGINES
 U GAS GENERATORS
GAS GENERATORS
 Environmental test and evaluation of a molecular sieve on-board oxygen-generation system [AD-A061531] p0125 N79-17559
GAS GIANT PLANETS
 Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
GAS MIXTURES
 NT AIR
 NT EXPIRED AIR
 Helium-oxygen mixture and the organism hyperbaric aspect p0243 N79-27818
GAS TRANSPORT
 A revised model of gas transport in human lungs p0253 A79-45768
 Physiological fluid dynamics [VKI-LECTURE-SERIES-32] p0247 N79-27843
GAS-ION INTERACTIONS
 Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres p0099 A79-22079
GASEOUS CAVITATION
 U CAVITATION FLOW
 U GAS FLOW
GASEOUS DIFFUSION
 Gas diffusion liquid storage bag and method of use for storing blood [NASA-CASE-NPO-13930-1] p0076 N79-14749
 Percutaneous absorption of toxic agents. Part 2: The nerve bases and some other toxic organophosphates. A survey of the literature. [PML-1978-9] p0123 N79-17542
GASES
 NT AIR
 NT ARGON
 NT CARBON DIOXIDE
 NT CARBON MONOXIDE
 NT CARBON SUBOXIDES
 NT EXHAUST GASES
 NT EXPIRED AIR
 NT GAS MIXTURES
 NT HELIUM
 NT HIGH PRESSURE OXYGEN
 NT HYDROGEN IONS
 NT NEON ISOTOPES
 NT NITROGEN
 NT OXYGEN
 NT OZONE
 NT RARE GASES
 NT TRITIUM
GASTROINTESTINAL SYSTEM
 NT INTESTINES
 NT STOMACH
 Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
 Study report on a double isotope method of calcium absorption [NASA-CP-160194] p0216 N79-25712
GAUSSIAN DISTRIBUTIONS
 U NORMAL DENSITY FUNCTIONS
GAUSSIAN NOISE
 U RANDOM NOISE
GAUSSMETERS
 U MAGNETOMETERS
GENERAL AVIATION AIRCRAFT
 NT AGRICULTURAL AIRCRAFT
 Effects of phase manipulation on speech intelligibility through communication headsets --- light aircraft radio communication p0164 A79-30654
GENERAL DYNAMICS AIRCRAFT
 NT F-111 AIRCRAFT

GENERAL DYNAMICS MILITARY AIRCRAFT
 U MILITARY AIRCRAFT
GENETIC CODE
 Speculations of the evolution of the genetic code. II p0099 A79-22080
 Evolution of a genetic code simulated with the computer p0100 A79-22081
 Nucleotide-binding site data and the origin of the genetic code p0206 A79-37974
 The origin of the protein synthesis mechanism p0207 A79-37986
 Carbon suboxide and the genetic code --- in biochemical evolution p0252 A79-44865
 Results of a 64Cu-loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04] p0240 N79-26774
GENETICS
 NT GENETIC CODE
 NT MUTATIONS
 Genetic effects of balloon flight in *Drosophila melanogaster* p0006 A79-12520
 The augmentation algorithm and molecular phylogenetic trees p0070 A79-20267
 Evolution of the biosphere /2nd enlarged edition/ --- Russian book p0270 A79-48310
 Effects of weightlessness on the genetics and aging process of *drosophila melanogaster* p0023 N79-11673
 Variability in human body size p0032 N79-11736
 Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
 Intelligence p0095 N79-15896
GENITOURINARY SYSTEM
 NT BLADDER
 NT PROSTATE GLAND
 NT TESTES
GEOCHEMISTRY
 NT BIOGEOCHEMISTRY
 A critical assessment of the origin of life p0207 A79-37985
GEOCHRONOLOGY
 The evolution of the environment and its influence on the evolution of life p0099 A79-22076
GEOGRAPHY
 Geographical disorientation and flight safety p0291 N79-31951
GEOLOGY
 NT GEOCHRONOLOGY
 A critical assessment of the origin of life p0207 A79-37985
GEO MAGNETIC EFFECTS
 U MAGNETIC EFFECTS
GEOMETRY
 NT ANALYTIC GEOMETRY
 NT PROLATE SPHEROIDS
GEOPHYSICAL SATELLITES
 NT INTERCOSMOS SATELLITES
GEOTHERMAL RESOURCES
 Amino acids in southern Kamchatka hot springs p0182 A79-33122
GEOTROPISM
 Geotropism of hornet comb construction under persistent acceleration p0006 A79-12514
 Convective control of long-range coherence in plant growth regulation p0006 A79-12515
 Cardiopulmonary readjustments in passive tilt p0277 A79-50901
GERMANY
 Psychological selection of Spacelab payload specialists: The evaluation of German applicants [DLR-FB-78-29] p0281 N79-30936
 Analyses of midair collisions in German airspace: Methodology and results p0291 N79-31949

- GERMINATORS**
U PHYTOTRONS
- GLANDS (ANATOMY)**
- NT ADRENAL GLAND
 - NT MAMMARY GLANDS
 - NT PARATHYROID GLAND
 - NT PINEAL GLAND
 - NT PITUITARY GLAND
 - NT PROSTATE GLAND
 - NT TESTES
 - NT THYMUS GLAND
 - NT THYROID GLAND
 - Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation p0312 N79-33804
- GLASS ELECTRODES**
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
- GLAUCOMA**
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel p0104 A79-23959
- GLAERT COEFFICIENT**
U AERODYNAMIC FORCES
- GLIDE LANDINGS**
Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators p0297 A79-52276
- GLIDERS**
Balance training of the equilibrium organ and its effect on flight strategy p0242 N79-27074
- GLOBULINS**
NT GAMMA GLOBULIN
Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- GLOVES**
Evaluation of British and Canadian conductive rubber heating elements for handwear:
Preliminary report [AD-A052826] p0093 N79-15637
Aluminized firemen's (fire proximity) handwear:
Redesign of experimental prototype [AD-A069895] p0290 N79-31940
- GLUCOSE**
Glucose metabolism in rat lung during exposure to hyperbaric O₂ p0221 A79-36047
Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C₁₄-U-glucose in diabetic rats p0252 A79-44797
Changes in blood sugar content of dogs exposed to chronic gamma radiation for six years p0014 N79-10706
- GLUTAMINE**
Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782 p0020 N79-11655
- GLYCOGENS**
Phosphorylase a in human skeletal muscle during exercise and electrical stimulation p0067 A79-18962
Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- GNTOBIOTICS**
Microbiological evaluation of the mobile biological isolator system [NASA-CR-162293] p0307 N79-32822
- GOATS**
A study of cerebral blood flow in the goat. A. Correlations between the ventilatory and cerebrovascular responses to carbon monoxide inhalation. B. The dynamics of the cerebral blood flow response to hypoxia by frequency response analysis p0107 N79-16510
- GOGGLES**
Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a OH-1H helicopter p0063 A79-18215
The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks
- and hoods suitable for flight attendant use p0184 A79-33638
Test and evaluation in the acquisition process - A look at the PLZT goggle p0184 A79-33642
Visual and optical assessment of gas protective face masks p0152 N79-19642
Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight p0152 N79-19649
Training requirements for helicopter operation with night vision goggles p0153 N79-19650
- GOVERNMENT PROCUREMENT**
Test and evaluation in the acquisition process - A look at the PLZT goggle p0184 A79-33642
- GOVERNMENTS**
Radiation protection activities, 1977 [PB-290215/3] p0176 N79-21759
- GRADIENTS**
NT POTENTIAL GRADIENTS
NT TEMPERATURE GRADIENTS
- GRADIOMETERS**
U MAGNETOMETERS
- GRADUATION**
U CALIBRATING
- GRASSES**
NT SEA GRASSES
Bacteria in a North Carolina salt marsh. Standing crop and importance in the decomposition of Spartina alterniflora [PB-288816/2] p0153 N79-19668
- GRATINGS**
Experimental investigation of the visual system using one-dimensional Walsh gratings p0160 A79-29249
- GRATINGS (SPECTRA)**
Visual contrast sensitivity functions obtained with colored and achromatic gratings p0181 A79-32628
Effects of stimulus onset and image motion on contrast sensitivity p0231 A79-42231
On the latency of human visually evoked response to sinusoidal gratings p0232 A79-42236
Direction-selective adaptation with very slow motion p0265 A79-47118
Motion and vision. I - Stabilized images of stationary gratings p0278 A79-50986
- GRAVIMETRY**
The pulmonary circulation: Studies on alveolar hypoxia and vascular smooth muscle metabolism p0195 N79-23650
- GRAVIRECEPTORS**
NT OTOLITH ORGANS
The vestibule and flying --- pilot disorientation p0255 A79-46598
- GRAVITATION**
NT REDUCED GRAVITY
- GRAVITATIONAL EFFECTS**
Life sciences and space research XVI; Proceedings of the Open Meetings of the Working Group on Space Biology, Tel Aviv, Israel, June 7-18, 1977 p0005 A79-12508
Geotropism of hornet comb construction under persistent acceleration p0006 A79-12514
Cerebral accident subsequent to G-force loading - A case report p0165 A79-30664
A model for vestibular function in altered gravitational states p0229 A79-41710
Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
Importance of temperature control for HEPLEX, a biological experiment for Spacelab 1 --- plant gravitational physiology study p0230 A79-41716
Radiographic comparison of human lung shape during normal gravity and weightlessness

Effects of weightlessness on the genetics and aging process of drosophila melanogaster	p0305 A79-54269 p0023 N79-11673	Growth of pulmonary circulation in normal pig - Structural analysis and cardiopulmonary function
Role of gravity in early development [NASA-TM-75590]	p0049 N79-12684	p0067 A79-18961
Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521]	p0081 N79-14780	Killfish development in zero-G on COSMOS 782: Fundulus experiment K-104
GREENHOUSE EFFECT		p0021 N79-11659
Habitable zones about main sequence stars	p0136 A79-27930	Purification and cultivation of human pituitary growth hormone secreting cells
GREENHOUSES		[NASA-CR-151853] p0051 N79-12697
U PHOTOTRONS		The growth kinetics of freshwater algae
GRIDS		p0174 N79-21740
Visual angle constancy for the subjective checkerboard pattern, as an indication of cortical origination of size constancy	p0231 A79-42232	GROWTH CHAMBERS
The effect of active area on the legibility of dot matrix displays [AD-A058014]	p0052 N79-12708	U PHOTOTRONS
GROUND BASED CONTROL		GRUMMAN AIRCRAFT
NT AIR TRAFFIC CONTROL		NT F-111 AIRCRAFT
Human factors considerations in establishing aircraft collision avoidance system alert thresholds	p0045 A79-14438	GUIDANCE (MOTION)
Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control	p0061 A79-17695	NT TERMINAL GUIDANCE
Short-term memory factors in ground controller/pilot communication	p0181 A79-32626	GUIDANCE SENSORS
Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite	p0021 N79-11664	Terminal guidance sensor system [NASA-CASE-NPO-14521-1] p0174 N79-20746
GROUND CREWS		GULFS
Electrocardiographic abnormalities in Air Force personnel	p0182 A79-33191	NT PERSIAN GULF
Initial training and retraining of technical agricultural flight personnel	p0227 A79-41166	GUMBEL THEORY
Soviet civil aviation training programs	p0270 A79-49221	U RANGE (EXTREMES)
Normal and pathological cardiovascular findings in applicants to the Air Force service	p0031 N79-11722	GUNFIRE
Minuteman missile crew fatigue and 24-hour alerts [AD-A056561]	p0056 N79-13696	Tentative evaluation of annoyance caused by noise from gunfire [IZP-1978-21] p0310 N79-32843
Field evaluation of experimental crash-crew firefighter's facepiece [AD-A066544]	p0223 N79-25765	GUNNERY TRAINING
GROUND TESTS		AAA gunnermodel based on observer theory --- predicting a gunner's tracking response p0087 N79-15594
Piloted aircraft simulation - Advantages, disadvantages, and practical problems [SAE PAPER 780548]	p0001 A79-10407	GUNS (ORDNANCE)
GROUND TRUTH		NT ARTILLERY
Radar observation of insects: Mosquitoes	p0148 N79-19600	GUSTATORY PERCEPTION
GROUP BEHAVIOR		U TASTE
U GROUP DYNAMICS		GYMNASTICS
GROUP DYNAMICS		U PHYSICAL EXERCISE
Team performance - A model for research	p0065 A79-18227	GYRATION
GROUP THEORY		NT AUTOROTATION
NT HOMOMORPHISMS		NT ROTATION
GROUP TA COMPOUNDS		Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs p0312 N79-33803
U HALOGEN COMPOUNDS		GYROPLANES
GROWTH		U HELICOPTERS
NT CROP GROWTH		H
NT CRYSTAL GROWTH		HABITABILITY
NT VEGETATION GROWTH		Habitable zones about main sequence stars
In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats	p0005 A79-12400	p0136 A79-27930
The effects of temperature, salinity, and other factors on the growth and formation of 'UV-absorbing substances by the fungus Aspergillus	p0005 A79-12512	Establishing habitability factors for the design of office environments
Convective control of long-range coherence in plant growth regulation	p0006 A79-12515	[AD-A056463] p0020 N79-10744
		The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
		HABITATS
		Wildlife monitoring program plan [NASA-TM-78578] p0190 N79-23626
		HABITS
		Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
		HALIDES
		NT SODIUM CHLORIDES
		NT ZINC CHLORIDES
		HALOGEN COMPOUNDS
		NT FLUOROPOLYMERS
		NT POLYTETRAFLUOROETHYLENE
		NT SODIUM CHLORIDES
		NT ZINC CHLORIDES
		Relationship between proton motive force and potassium ion transport in Halobacterium halobium envelope vesicles p0227 A79-40775
		HALOGENS
		NT IODINE
		HALOPHILES
		Gating effects in Halobacterium halobium membrane transport
		p0268 A79-47849
		Light-driven solute transport in Halobacterium halobium
		p0270 A79-49194
		HAND (ANATOMY)
		Compact artificial hand

[NASA-CASE-NPO-13906-1]	p0214 N79-24652	p0090 N79-15618
HANDBOOKS		
NT USER MANUALS (COMPUTER PROGRAMS)		
Anthropometric source book. Volume 2: A handbook of anthropometric data		
[NASA-RP-1024-VOL-2]	p0058 N79-13711	p0046 A79-15177
Manned maneuvering unit: User's guide		
[NASA-CR-151864]	p0113 N79-16553	p0048 A79-16235
HANDLING QUALITIES		
U CONTROLLABILITY		
HARDWARE		
Test and evaluation process for life support systems		
p0184 A79-33643		p0090 N79-15615
HARMONIC ANALYSIS		
A numerical method of film analysis with differentiation --- curve fitting with harmonic analysis		
p0061 A79-17585		p0318 N79-33851
HARNESSES		
Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction		
p0103 A79-23953		
Aircrew personnel restraint subsystems definition of deficiencies and requirements		
[AD-A058995]	p0053 N79-12711	
HAZARDS		
NT AIRCRAFT HAZARDS		
NT FLIGHT HAZARDS		
NT OPERATIONAL HAZARDS		
NT RADIATION HAZARDS		
NT TOXIC HAZARDS		
HEAD (ANATOMY)		
Design considerations for inflatable head/neck restraint systems		
p0043 A79-14407		
Development of a specialized head/face protective device for test parachuting operations		
p0045 A79-14437		
SPH-4 helmet damage and head injury correlation		
p0127 A79-24633		
Quality of retinal image stabilization during small natural and artificial body rotations in man		
p0225 A79-40187		
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study		
p0252 A79-44798		
Analysis of naval aviation head and neck injuries (1969-1978)		
[AD-A057657]	p0026 N79-11689	
Changes in human renal function in passive head-up and head-down positions		
p0072 N79-14722		
A discrete parameter model of the head and neck with neuromuscular feedback		
p0211 N79-24627		
Multiaxis dynamic response of the human head and neck to impact acceleration		
p0284 N79-31906		
A head injury model		
p0286 N79-31918		
Correlation of head injury with mechanical forces based on helmet damage duplication		
p0287 N79-31920		
HEAD MOVEMENT		
Voluntary movement control and adaptation to cross-coupled stimulation --- motion sickness avoidance		
p0009 A79-12860		
Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements		
p0135 A79-27558		
Head acceleration and psychomotor performance --- related to crash accident survival rates		
p0135 A79-27559		
Information transmission during eye movements		
p0209 A79-38360		
Dynamics of the eye and head during movement between displays - A qualitative and quantitative guide for designers		
p0209 A79-38362		
A comparison of oculomotor and motion parallax cues of egocentric distance		
p0305 A79-54253		
Head tracking at large angles from the straight ahead position		
HEAD-UP DISPLAYS		
Light weight solid state helmet symbol display and position system		
p0046 A79-15177		
Helicopter night operations - Feasibility and impact on the overall system --- helmet mounted FLIR detectors and image intensifier goggles		
p0048 A79-16235		
A head-up display for mid-air drone recovery		
p0090 N79-15615		
The role of cognitive switching in head-up displays --- to determine pilot ability to accurately extract information from either of two sources		
[NASA-CR-3137]		
HEADSETS		
U EARPHONES		
HEALING		
NT WOUND HEALING		
HEALTH		
NT HEALTH PHYSICS		
NT MENTAL HEALTH		
NT PUBLIC HEALTH		
Morbidity experience of air traffic control personnel - 1967-77		
p0101 A79-23466		
Effects of endurance training on left ventricular dimensions in healthy men		
p0237 A79-43706		
A literature review-problem definition studies on selected toxic chemicals. Volume 5: Occupational health and safety and environmental aspects of zinc chloride		
[AD-A056020]		p0025 N79-11687
The morbidity experience of air traffic control personnel, 1967-1977		
[AD-A056053]		p0051 N79-12696
Air traffic controller health change study		
[FAA-AM-78-39]		p0122 N79-17534
Telehealth handbook: A guide to telecommunications technology for rural health care		
[PB-292557/6]		p0241 N79-26778
The effects of whole-body vibration on health		
[AD-A068478]		p0284 N79-31900
HEALTH PHYSICS		
NT PUBLIC HEALTH		
Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour		
p0047 A79-15493		
Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna		
p0136 A79-27959		
Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection --- German book		
p0162 A79-29763		
Space osteoporosis - An electromagnetic hypothesis		
p0165 A79-30666		
Electromagnetic absorption in a multilayered model of man		
p0226 A79-40650		
Pulmonary functional tolerance to ionizing radiation - An experimental study		
p0256 A79-46601		
Radiation protection activities, 1977		
[PB-290215/3]		p0176 N79-21759
Biological effects of laser radiation, volume 1. A bibliography with abstracts		
[NTIS/PS-79/0019/4]		p0176 N79-21760
Biological effects of laser radiation, volume 2. A Bibliography with abstracts		
[NTIS/PS-79/0020/2]		p0176 N79-21761
Atmospheric neutrons		
[NASA-CR-3126]		p0211 N79-24631
Systems identification and application systems development for monitoring the physiological and health status of crewmen in space		
[NASA-CR-160235]		p0212 N79-24642
Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities		
[NUREG-CR-0494]		p0259 N79-28873
Biological effects of microwaves, volume 1. A bibliography with abstracts		
[NTIS/PS-79/0432/9]		p0280 N79-30929

- Biological effects of microwaves, volume 2. A bibliography with abstracts [NTIS/PS-79/0433/7] p0280 N79-30930
- Some considerations of hazards in the use of lasers for artistic displays [PB-294513/7] p0281 N79-30931
- Radiation protection [GPO-35-583] p0283 N79-31899
- Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- Biological effects of nonionizing electromagnetic radiation, volume 3, number 4 [AD-A070242] p0315 N79-33826
- Health effects of low-level ionizing radiation [LBL-9018] p0316 N79-33834
- HEARING**
- A mathematical scheme for predicting the electro-acoustic frequency response of hearing aid receiver-earmold-ear systems p0154 N79-19673
- Magnitude estimation as a hearing aid selection procedure p0246 N79-27838
- HEARING LOSS**
- U AUDITORY DEFECTS**
- HEART**
- NT CARDIAC VENTRICLES
- The metabolic demand and oxygen supply of the heart - Physiologic and clinical considerations [IAF PAPER 78-52] p0300 A79-52894
- Noninvasive ultrasonic blood flow characterization p0017 N79-10726
- Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545
- Observability of electrical heart activity studied with singular value decomposition [TH-78-E-81] p0144 N79-18584
- Decrease in the functional abilities of the heart as a result of exposure of an organism to an electromagnetic field of industrial frequency p0172 N79-20733
- Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- HEART DISEASES
- NT CORONARY ARTERY DISEASE
- Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
- Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits p0098 A79-21246
- Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
- Myocardial infarction in young men p0188 A79-35137
- Predictive accuracy of Q-X/Q-T ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing --- heart pathology p0225 A79-40464
- Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease p0272 A79-49731
- Magnetocardiography - An overview p0274 A79-50107
- Noninvasive cardiovascular measurements --- Book p0293 A79-51026
- Computer quantitation of angiographic images p0293 A79-51028
- Clinical usefulness of radiopaque markers in left ventricular function p0293 A79-51029
- Cardiac blood flow measurement - A component of the comprehensive cardiac examination p0295 A79-51041
- Clinical magnetocardiography p0295 A79-51044
- Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- Experience with periodic aviation medical examinations p0026 N79-11696
- The significance of rhythm disturbances in asymptomatic persons p0027 N79-11698
- Cardiovascular diseases as a cause of unfitness for flying service in aircrews of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention p0031 N79-11725
- Cardiovascular diseases, volume 3. A bibliography with abstracts [NTIS/PS-79/0063/2] p0260 N79-28874
- The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- HEART FUNCTION**
- NT HEART MINUTE VOLUME
- Biomagnetism and artificial magnetic stimulation of living structures [IAF PAPER 78-52] p0002 A79-11222
- Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving p0010 A79-12866
- Influences of physical conditioning and deconditioning on coronary vasculature of dogs p0067 A79-18955
- Effect of physical conditioning on cardiac mitochondrial function p0068 A79-18966
- Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia p0097 A79-20621
- Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography p0098 A79-21243
- Mitral prolapse and acceleration --- in aircraft pilots p0103 A79-23951
- Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction p0103 A79-23953
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His --- neural activity effects on heart block p0103 A79-23955
- Systolic time intervals during combined hand cooling and head-up tilt p0135 A79-27554
- Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures p0135 A79-27557
- Age trends in the cardiovascular dynamics of aircrewmen p0136 A79-27560
- Conjoint effect of physical stress and noise stress on information processing performance and cardiac response p0161 A79-29715
- Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728
- Cardiac response to whole-body heating p0165 A79-30661
- Electrocardiographic abnormalities in Air Force personnel p0182 A79-33191
- Cardiac changes during behavioral stress in dogs p0200 A79-36575
- A tethering system for direct measurement of cardiovascular function in the caged baboon p0200 A79-36576
- Influence of Beta-Blockade on asymptomatic ST-T wave changes - A follow up study p0201 A79-37137
- Some electrophysiological concepts of the U wave of ECG

SUBJECT INDEX**HEAT RESISTANCE**

- Concurrent loss of consciousness and sino-atrial block during +Gz stress p0201 A79-37138
- Homomorphic analysis and modeling of ECG signals p0202 A79-37714
- Adjustment of an electronic model for electrocardiogram simulation p0210 A79-39973
- Effects of endurance training on left ventricular dimensions in healthy men p0232 A79-42240
- Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylycyclase and phosphodiesterase systems in the myocardium p0237 A79-43706
- Isolation of a shock-induced circulating cardiodepressant substance p0255 A79-46500
- Problem of modeling the mechanism of heart contraction p0257 A79-46967
- Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiosignals p0275 A79-50287
- Modification of cardiac function by synchronized oscillating acceleration p0276 A79-50658
- Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0299 N79-11714
- Cardiac conduction and aptitude problem of fliers. The benefits of endocardial recording of the His bundles p0300 N79-11716
- Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers p0300 N79-11717
- Functional outcomes of prosthetic cardiac valve replacement p0307 N79-14746
- Temperature effects on shape and function of human granulocytes [AD-A063750] p0189 N79-22757
- Characterization of cardiovascular function by automated monitoring of cardiac contractility and left ventricular wall motion activity p0247 N79-27842
- HEART MINUTE VOLUME**
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- HEART RATE**
NT ARRHYTHMIA
NT BRADYCARDIA
NT SYSTOLE
Comparison of circadian rhythms in male and female humans p0004 A79-11947
- Simulation study on time series of heart responses p0037 A79-13197
- Effects of brief exposure of domestic fowl to very intense acceleration fields p0127 A79-24631
- Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits p0134 A79-27120
- Physical performance and peak aerobic power at different body temperatures p0221 A79-36046
- Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- Similarity in the number of lifespan heartbeats among non-hibernating homeothermic animals p0298 A79-52281
- Continuous long-duration recording of the heart rate by means of a noncontact technique p0300 A79-53068
- Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method p0015 N79-10707
- The significance of rhythm disturbances in asymptomatic persons p0027 N79-11698
- Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888] p0055 N79-13692
- Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- A simulator study of the interaction of pilot workload with errors, vigilance, and decisions [NASA-TM-78482] p0079 N79-14769
- Heart rate: Physiological characteristics and quantification methods for use in behavioral studies [CSIR-SR-PERS-276] p0121 N79-17531
- A study of some of the factors influencing the left ventricular diastolic pressure-volume relationship and myocardial metabolism p0154 N79-19674
- Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749] p0190 N79-22758
- HEART VALVES**
A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0045 A79-14602
- Mitral prolapse and acceleration --- in aircraft pilots p0103 A79-23951
- A fluid-mechanical study of the closure of heart valves p0161 A79-29540
- Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries p0183 A79-33632
- HEAT**
NT DRY HEAT
HEAT ACCLIMATIZATION
Temperature-dependent morphological changes in membranes of *Bacillus stearothermophilus* p0005 A79-12475
- Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
- Thermoregulation in swimmers and runners p0227 A79-41186
- Intestinal transport of hexoses in the rat following chronic heat exposure p0236 A79-43701
- Heat and acute dehydration effects on acceleration response p0237 A79-43705
- Effect of rate of change in skin temperature on local sweating rate p0268 A79-47853
- Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
- A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
- The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans p0195 N79-23651
- HEAT CONDUCTION**
U CONDUCTIVE HEAT TRANSFER
- HEAT DISSIPATION**
U COOLING
- HEAT DISSIPATION CHILLING**
U COOLING
- HEAT EFFECTS**
U TEMPERATURE EFFECTS
- HEAT EQUATIONS**
U THERMODYNAMICS
- HEAT GAIN**
U HEATING
- HEAT REGULATION**
U TEMPERATURE CONTROL
- HEAT RESISTANCE**
U THERMAL RESISTANCE

HEAT SOURCES

SUBJECT INDEX

HEAT SOURCES
 NT GEOTHERMAL RESOURCES
HEAT STROKE
 Thermal bounds to the time of stay of human beings in enclosures p0231 A79-41770
 Increased survival in experimental dog heatstroke after reduction of gut flora p0266 A79-47335

HEAT TESTS
 U HIGH TEMPPRATURE TESTS
HEAT TOLERANCE
 Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22] p0007 A79-12571
 Effect of water and electrolyte replacement during exercise in the heat on biochemical indices of stress and performance p0127 A79-24629
 Cardiac response to whole-body heating p0165 A79-30661
 Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft p0236 A79-43675
 Heat- and exercise-induced hyperthermia - Effects on high-energy phosphates p0266 A79-47332
 Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects p0297 A79-52023
 Criteria for maximum tolerable heat stress. A proposal [IZP-1978-13] p0144 N79-18583
 A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
 Stress and fatigue in the driving environment --- physiological and psychological effects of heat and noise experienced inside automobiles p0211 N79-24629

HEAT TRANSFER
 NT CONDUCTIVE HEAT TRANSFER
 Heat transfer and temperature distribution in the human body p0041 A79-13612
 Heat transfer principles in personal protection applications p0043 A79-14405
 Bio-heat transfer processes, for human thermoregulatory and circulatory characteristics measurements p0304 A79-53536
 Pattern of heat loss from a subject wearing CF temperate-climate combat clothing [AD-A057746] p0093 N79-15636
 The human micro-environment p0248 N79-27851

HEAT TRANSMISSION
 NT CONDUCTIVE HEAT TRANSFER
 NT HEAT TRANSFER
HEATING
 NT RADIO FREQUENCY HEATING
 NT TRANSIENT HEATING
 The effects of different levels of heat production induced by diathermy and eccentric work on thermoregulation during exercise at a given skin temperature p0128 A79-24698
 Criteria for maximum tolerable heat stress. A proposal [IZP-1978-13] p0144 N79-18583

HEAVY ELEMENTS
 NT AMERICIUM 241
HELICOPTER ATTITUDE INDICATORS
 U HELICOPTERS
HELICOPTER CONTROL
 Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter p0063 A79-18215
 Helicopter commands at the touch of a hand [AHS 79-13] p0270 A79-49066
 An analysis of helicopter pilot control behaviour and workload during instrument flying tasks [NLR-MP-78003-U] p0124 N79-17553

An analysis of helicopter pilot control behavior and workload during instrument flying tasks p0150 N79-19630
 Performance and workload analysis of inflight helicopter missions [NLR-MP-77013-U] p0308 N79-32834

HELICOPTER DESIGN
 Quantifying operator preference during human factors test and evaluation --- in helicopter design p0062 A79-18202
 The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight p0062 A79-18206
 Operational Helicopter Aviation Medicine [AGARD-CP-255] p0148 N79-19605
 Human factors evaluations of today's helicopters as an aid to future systems design p0150 N79-19627
 TADRAP: A computer-aided technique for reducing aircrav task analysis data --- helicopter design considering human factors p0150 N79-19628
 The use of biostereometry in helicopter cockpit design --- using a simulator and analytic geometry p0150 N79-19629
 Human factor engineering test and evaluation of the US Navy LAMPS helicopter system p0151 N79-19632
 Visual requirements for the helicopter pilot p0151 N79-19636

HELICOPTER PERFORMANCE
 The assessment of rotary wing aviator precision performance during extended helicopter flights p0040 A79-13221
 An inflatable restraint system --- for helicopter crash protection p0044 A79-14408
 Helicopter night operations - Feasibility and impact on the overall system --- helmet mounted FLIR detectors and image intensifier goggles p0048 A79-16235
 Evaluation of the helicopter in aeromedical transfers p0128 A79-24638
 An overview of helicopter mission specific survival equipment p0183 A79-33625

HELICOPTER ROTORS
 U ROTARY WINGS
HELICOPTERS
 NT MILITARY HELICOPTERS
 NT UH-1 HELICOPTER
 Methodological considerations of visual workloads of helicopter pilots p0209 A79-38363
 Eye-ball control p0270 A79-49225
 The influence of low frequency vibration on pilot performance /as measured in a fixed base simulator/ p0299 A79-52326
 An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
 The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204] p0055 N79-13693
 The Helicopter p0114 N79-16568
 Protective approaches in the moderation of the physiological effects of extreme ambient conditions in helicopter operations p0149 N79-19618
 In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
 Evaluation of aircrew fatigue during operational helicopter flight mission p0149 N79-19622
 Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
 Observation of night shipboard helicopter operations from a 210 foot US Coast Guard cutter p0151 N79-19637

- Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator
[NASA-TM-80106] p0151 N79-19638
- Visual performance/workload of helicopter pilots during instrument flight
p0152 N79-19640
- Sensorial aspects of helicopter operations
p0152 N79-19644
- The effective acoustic environment of helicopter crewmen
p0152 N79-19645
- Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight
p0152 N79-19649
- Effect of helicopter noise on passenger annoyance
[NASA-TM-80106] p0241 N79-26782
- Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins
p0287 N79-31925
- Workload and the certification of helicopters for IFP operation
[AD-A072758] p0318 N79-33850
- HELIUM**
- The response of the microvascular canal to a hypoxic helium-containing medium
p0208 A79-38151
- Helium-oxygen mixture and the organism hyperbaric aspect
p0243 N79-27818
- Toxicity of oxygen mixed with helium
p0245 N79-27829
- HELIOXYGEN ATMOSPHERES**
- Voice communication in artificial atmospheres --- Russian book
p0048 A79-16500
- Effect of decompression per se on nitrogen elimination
p0067 A79-18964
- Tissular respiration of the brain after exposure of rats to hypertoxic helium and oxygen mixtures at atmospheric and elevated pressure
p0015 N79-10712
- HELMETS**
- The helmet protects the aviator's head - Or does it
An assessment of the RAE Type 'B' full pressure suit automatic head enclosure
p0044 A79-14429
- Development of a specialized head/face protective device for test parachuting operations
p0044 A79-14432
- Light weight solid state helmet symbol display and position system
p0045 A79-14437
- Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix
p0046 A79-15177
- SPH-4 helmet damage and head injury correlation
p0127 A79-24633
- Improved headgear for fixed wing Navy airmen
p0184 A79-33641
- The fitting of Canadian Forces aircrrew helmets - Why the difference
p0184 A79-33645
- Aircrrew helmet protection against potential cerebral concussion in low-magnitude impacts
p0201 A79-37705
- Lightweight helmet-mounted eye movement measurement system
p0303 A79-53516
- Lightweight helmet-mounted eye movement measurement system
p0090 N79-15619
- Head aiming/tracking accuracy in a helicopter environment
p0153 N79-19651
- Evaluation of the Sierra Engineering Company lightweight helmet
[AD-A061799] p0157 N79-19689
- Binocular holographic helmet mounted display
[AD-A062761] p0174 N79-20749
- An interface evaluation of the XM-29 protective mask and the AF-1S telescopic sight unit
[AD-A064203] p0190 N79-22764
- Impact tests on crash helmets for motor cyclists
[AD-A065966] p0197 N79-24655
- Helmet weight simulator
[NASA-CASE-LAR-12320-1] p0223 N79-25761
- Correlation of head injury with mechanical forces based on helmet damage duplication
p0287 N79-31920
- HEMATOCRIT**
- Effects of regional hemoconcentration during LBNP on plasma volume determinations --- Lower Body Negative Pressure
p0265 A79-47326
- HEMATOLOGY**
- Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity
p0010 A79-12869
- Developmental and hematological responses to low level exposure of carbon monoxide in mice
p0048 A79-16099
- Some forms of adaptation to extreme influences in the blood system
p0256 A79-46679
- The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man
p0267 A79-47398
- Studies on the bioassayable growth hormone-like activity of plasma
p0267 A79-47848
- HEMATOPOIESIS**
- Recovery of hemopoiesis in rats exposed to radiation during space flight
p0014 N79-10701
- Effects of long-term and chronic radiation on hemopoiesis
p0016 N79-10719
- Dynamic regulation of erythropoiesis: A computer model of general applicability
[NASA-CR-160203] p0217 N79-25720
- Improvements and validation of the erythropoiesis control model for bed rest simulation
[NASA-CR-160187] p0218 N79-25728
- HEMATOPOIETIC SYSTEM**
- Use of a computer model in the understanding of erythropoietic control mechanisms
[NASA-CR-160201] p0217 N79-25718
- The application of systems analysis and mathematical models to the study of erythropoiesis during space flight
[NASA-CR-160218] p0219 N79-25739
- HEMODYNAMIC RESPONSES**
- Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test
p0047 A79-15490
- Developmental and hematological responses to low level exposure of carbon monoxide in mice
p0048 A79-16099
- Exercise performance and hemodynamics during dietary potassium depletion in dogs
p0067 A79-18959
- Response of the rat erythrocyte to ozone exposure
p0067 A79-18963
- Hemodynamic indices under orthostatic and vestibular effects
p0098 A79-20692
- Interaction between hypothalamic and bulbar levels of regulating blood circulation
p0098 A79-21242
- Cardiovascular regulatory response to lower body negative pressure following blood volume loss
p0101 A79-23470
- Hemodynamics in teenagers and asthmatic children during exercise
p0133 A79-27102
- RBC-Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration
p0135 A79-27553
- Systolic time intervals during combined hand cooling and head-up tilt
p0135 A79-27554
- Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures
p0135 A79-27557
- Early cardiovascular adaptation to simulated zero gravity
p0162 A79-29727
- Fluid shifts during initial phase of immersion diuresis in man
p0185 A79-33804

- Control of skin blood flow during exercise -
Thermal and nonthermal factors p0185 A79-33807
- Effects of chronic changes in hemoglobin-O2
affinity in rats p0185 A79-33808
- Circulatory response to arterial hyperoxia p0221 A79-36048
- Effects of regional hemoconcentration during LBNP
on plasma volume determinations --- Lower Body
Negative Pressure p0265 A79-47326
- The metabolic demand and oxygen supply of the
heart - Physiologic and clinical considerations p0300 A79-52894
- Compensatory reactions of the kidneys to
orthostatic factors p0015 N79-10708
- Effects of endogenous factors on the process of
gas bubble formation in the body related to
decompression p0015 N79-10713
- Correction of transcapillary exchange in man under
the influence of rotation on a centrifuge while
immersed in water p0110 N79-16533
- Developmental and hematological responses to low
level continuous exposure of nitrogen dioxide in
mice p0147 N79-19026
- Studies of venous circulation in the crew of the
Salyut-5 orbital station p0310 N79-33791
- HEMODYNAMICS**
- Cardiac and vascular components of the systemic
response of blood circulation to orthostatic
influence p0097 A79-20651
- Regional blood supply under hypoxic hypoxia p0097 A79-20652
- Central and cerebral hemodynamics and metabolism
of the healthy man during head-down tilting p0127 A79-24634
- Pulmonary blood volume and interventricular
circulation time in physically trained and
untrained subjects p0128 A79-24700
- Age trends in the cardiovascular dynamics of
aircrewmen p0136 A79-27560
- Individual differences in hypoxic responses at
high altitudes p0159 A79-28738
- Diagnostics of initial deficiency in cerebral
circulation p0166 A79-31164
- Neural regulation of coronary circulation p0208 A79-38148
- The bloodflow in skeletal muscle capillaries in
normoxia and arterial hypoxemia
/Microcinematographic studies/ p0208 A79-38150
- The response of the microvascular canal to a
hypoxic helium-containing medium p0208 A79-38151
- Specific problems in cardiovascular fluid dynamics
measurements p0210 A79-39506
- Dynamics of the catalase activity of the blood of
athletes under the influence of local
decompression p0271 A79-49699
- Possibilities and perspectives of tetrapolar
transthoracic impedance rheophethysmography in
noninvasive studies of hemo- and cardiodynamics
p0296 A79-51118
- The role of lesser circulation hemodynamic changes
in pulmonary gas exchange p0300 A79-53066
- Studies of hemodynamics and phase structure of
cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- Development and application of resistive pulse
spectroscopy: Studies on the size, form and
deformability of red blood cells
[LBL-8640] p0280 N79-30924
- HEMOGLOBIN**
- NT OXYHEMOGLOBIN
- Hemoglobinemia in rats exposed to high altitude is
not due to an overload of catabolic mechanisms
p0101 A79-23467
- Effects of chronic changes in hemoglobin-O2
affinity in rats p0185 A79-33808
- Investigation of the content of hemoglobin and its
fractions in permanent inhabitants of the Tien
Shan and Pamir p0188 A79-35124
- Effects of regional hemoconcentration during LBNP
on plasma volume determinations --- Lower Body
Negative Pressure p0265 A79-47326
- Polylglutaraldehyde - A new reagent for coupling
proteins to microspheres and for labeling
cell-surface receptors p0274 A79-50230
- Noninvasive estimation of bilirubin and hemoglobin
oxygen saturation in the skin by reflection
spectrophotometry p0054 N79-13684
- Thermodynamic studies on the oxygenation and
subunit association of human hemoglobin
p0142 N79-18576
- Analysis of visible spectra and thermodynamic
parameters in hemeprotein systems p0144 N79-18579
- Mathematical studies of oxygen transport to tissue
p0170 N79-20723
- Studies of metabolism, function and mechanism of
destruction of red cells
[AD-A070240] p0315 N79-33828
- HEMORRHAGES**
- Ruptured arteriovenous anomaly in a former woman
astronaut candidate p0128 A79-24640
- Isolation of a shock-induced circulating
cardiodepressant substance p0257 A79-46967
- HEPARINS**
- Blood coagulation and tissular factors of blood
clotting in heparinized rabbits submitted to
hypokinesia p0313 N79-33813
- HERING-BREWER REFLEX**
- Axiomatic summary and deductions from Hering's
principles of visual direction p0228 A79-41421
- HETEROCYCLIC COMPOUNDS**
- NT ADENOSINES
- NT ASCORBIC ACID
- NT AZINES
- NT HYOSCINE
- NT INDOLES
- NT NICOTINE
- NT PROMETHAZINE
- NT THYMIDINE
- NT TOCOPHEROL
- NT TRYPTOPHAN
- HEXOSES**
- Intestinal transport of hexoses in the rat
following chronic heat exposure p0236 A79-43701
- HIBERNATION**
- Similarity in the number of lifespan heartbeats
among non-hibernating homeothermic animals
p0298 A79-52281
- HIERARCHIES**
- Adaptive control of a robotic manipulator
p0046 A79-15001
- HIGH ACCELERATION**
- Tolerance of domestic fowl to high sustained +Gz
p0127 A79-24630
- Effects of brief exposure of domestic fowl to very
intense acceleration fields p0127 A79-24631
- Multibody dynamics including translation between
the bodies, with application to head-neck systems
[AD-A062114] p0174 N79-20747
- HIGH ALTITUDE**
- Oxygen affinity of blood in altitude Sherpas
p0268 A79-47854
- Composition of cerebral fluids in goats adapted to
high altitude p0277 A79-50902
- Evidence for increased intrathoracic fluid volume
in man at high altitude p0305 A79-54266

SUBJECT INDEX

HOMEOSTASIS

- Flight test evaluation of an RAP high altitude partial pressure protective assembly
[NASA-TM-72864] p0214 N79-28654
- Evidence for increased intrathoracic fluid volume in man at high altitude
[AD-A065333] p0220 N79-25743
- Altitude hypoxia, volume 1. A bibliography with abstracts
[NTIS/PS-79/0427/9] p0280 N79-30927
- Altitude hypoxia, volume 2. A bibliography with abstracts
[NTIS/PS-79/0428/7] p0280 N79-30928
- HIGH ALTITUDE BREATHING**
- Oxygen systems for Army helicopters p0044 A79-14421
- Individual differences in hypoxic responses at high altitudes p0159 A79-28738
- Oral/nasal breathing systems in the year 2000 p0183 A79-33621
- Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression p0185 A79-33806
- Oxygen equipment and rapid decompression studies [AD-A070285] p0289 N79-31937
- HIGH ALTITUDE ENVIRONMENTS**
- An assessment of the RAE Type 'B' full pressure suit automatic head enclosure p0044 A79-14432
- Development of the Air Force S-1030 full pressure suit assembly p0044 A79-14433
- A Canadian approach to high altitude protection --- fighter pilot garmentry and high pressure masks p0045 A79-14435
- Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425
- Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m p0102 A79-23474
- Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118
- Plasma electrolytes in relation to altitude tolerance in rats p0163 A79-30652
- Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- Investigation of the content of hemoglobin and its fractions in permanent inhabitants of the Tien Shan and Pamir p0188 A79-35124
- Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201
- Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylylcyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- HIGH ALTITUDE FLIGHT**
- U HIGH ALTITUDE**
- HIGH ALTITUDE TESTS**
- New inventory for the assessment of symptom occurrence and severity at high altitude p0273 A79-49991
- HIGH GRAVITY (ACCELERATION)**
- U HIGH GRAVITY ENVIRONMENTS**
- HIGH GRAVITY ENVIRONMENTS**
- Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G p0227 A79-41185
- Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- HIGH LATITUDES**
- U POLAR REGIONS**
- HIGH PASS FILTERS**
- Influence of motion wash-out filters on pilot tracking performance [NLR-MP-78005-U] p0124 N79-17554
- HIGH PRESSURE**
- Positive pressure breathing as a protective technique in +Gz acceleration
- p0201 A79-37132
- Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
- Helium-oxygen mixture and the organism hyperbaric aspect p0243 N79-27818
- HIGH PRESSURE OXYGEN**
- Hyperbaric oxygenation. A bibliography with abstracts [NTIS/PS-79/0744/7] p0317 N79-33837
- HIGH RESOLUTION**
- A 25-inch precision color display for simulator visual systems p0137 A79-28164
- Skin-resistance measuring device with higher resolution p0252 A79-45476
- HIGH TEMPERATURE ENVIRONMENTS**
- A composite view of task performance in hot environments p0036 A79-13186
- Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations p0266 A79-47334
- HIGH TEMPERATURE TESTS**
- A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
- HIGHLANDS**
- Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- HILLER MILITARY AIRCRAFT**
- U MILITARY AIRCRAFT**
- HINDRANCE**
- U CONSTRAINTS**
- HINGE MOMENTS**
- U TORQUE**
- HINGED ROTOR BLADES**
- U ROTARY WINGS**
- HIPPOCAMPUS**
- Origin of neuron responses of the superior colliculus to light flashes p0233 A79-42294
- Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733
- HIS BUNDLE**
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His --- neural activity effects on heart block p0103 A79-23955
- Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles p0030 N79-11716
- HISTOCHEMICAL ANALYSIS**
- Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite p0014 N79-10703
- HISTOLOGY**
- Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite p0014 N79-10703
- Diffraction-based characterization of biological tissue with ultrasound --- acoustic scattering from liver tissue p0054 N79-13683
- HISTORIES**
- NT CASE HISTORIES**
- HOLOGRAPHY**
- The holographic Pancake Window --- magnifier for flight simulation display p0138 A79-28172
- Binocular holographic helmet mounted display [AD-A062761] p0174 N79-20749
- HOMEOSTASIS**
- Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
- Control theory and biosystems: Analysis of homeostatic properties --- Russian book p0186 A79-34506

- The role of the neurohormone system of the hypothalamus in physiology and pathology --- Russian book p0251 A79-43835
- Acid-base homeostasis in the human system [NASA-CR-160222] p0212 N79-24640
- HOMEOTHERMS**
- Neurophysiology of thermal reception p0043 A79-14374
- The local and time-dependent temperature field in the body of a homeothermic organism in case of sudden changes of quantity and local distribution of internal heat production p0128 A79-24699
- Similarity in the number of lifespan heartbeats among non-hibernating homeothermic animals p0298 A79-52281
- HOMOMORPHISMS**
- Homomorphic analysis and modeling of ECG signals p0210 A79-39973
- HORMONE METABOLISMS**
- Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948
- Energetic aspects of adaptation --- Russian book on metabolic responses to stress p0167 A79-31906
- Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C₁₄-U-glucose in diabetic rats p0252 A79-44797
- HORMONES**
- NT ADRENOCORTICOTROPIN (ACTH)
- NT ALDOSTERONE
- NT CORTICOSTEROIDS
- NT PITUITARY HORMONES
- In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400
- The role of the neurohormone system of the hypothalamus in physiology and pathology --- Russian book p0251 A79-43835
- The effect of 17alpha-ethynodiol on the radiation sensitivity of mice p0141 N79-18557
- HOT WEATHER**
- Effect of water and electrolyte replacement during exercise in the heat on biochemical indices of stress and performance p0127 A79-24629
- Fighter index of thermal stress /FITS/ - guidance for hot-weather aircraft operations p0202 A79-37715
- Fighter index of thermal stress: Development of interim guidance for hot-weather USAF operations [AD-A053471] p0056 N79-13699
- HOT-FILE ANEMOMETERS**
- Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers p0210 A79-39509
- HOVERING**
- Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator p0088 N79-15605
- Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
- HOVERING STABILITY**
- An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- HU-1 HELICOPTER**
- O JH-1 HELICOPTER**
- HUGHES MILITARY AIRCRAFT**
- O MILITARY AIRCRAFT**
- HUMAN BEHAVIOR**
- Comparison of plasma and urinary steroids in men
- with type A and type B behavior patterns p0028 N79-11704
- Human responses to fire: Three designs for research [PB-284959/4] p0058 N79-13708
- A formal model of the adaptive and discrete control behaviors of human operators [AD-A059039] p0059 N79-13717
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 47 [JPRS-72134] p0071 N79-14708
- Translations on USSR science and technology: Biomedical and behavioral science, no. 54 [JPRS-72650] p0077 N79-14753
- Modeling the human as a controller in a multitask environment p0087 N79-15595
- Prospects of a mathematical theory of human behavior in complex man-machine systems tasks --- time sharing computer analogy of automobile driving p0088 N79-15599
- Petri nets as a modeling tool for discrete concurrent tasks of the human operator --- describing sequential and parallel demands on human operators p0088 N79-15600
- Use of reward-penalty structures in human experimentation p0089 N79-15607
- A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57 [JPRS-72808] p0121 N79-17526
- Masculinity, femininity, androgyny. What really works at work [AD-A061177] p0156 N79-19683
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 60 [JPRS-73135] p0175 N79-21745
- A two level model of human steering behavior in a motor vehicle [FB-27] p0197 N79-24657
- Personality profiles of divers involved in research activities [DLR-FB-78-11] p0281 N79-30935
- Methodological and operational aspects of programmed environment research [AD-A068587] p0289 N79-31936
- Car driving as a cybernetic task [IZP-1979-6] p0309 N79-32838
- HUMAN BEINGS**
- Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics p0133 A79-27105
- Central and reflex mechanisms of controlling movements --- Russian book p0251 A79-43950
- Metabolic adrenergic changes during submaximal exercise and in the recovery period in man p0305 A79-54267
- Influence of skin temperature on sweating and aerobic performance during severe work p0305 A79-54268
- Numerical studies of absorption of electro-magnetic energy by man p0110 N79-16538
- The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells p0141 N79-18558
- Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2 [PB-288320/5] p0145 N79-18586
- Man and materiel in the cold regions, part 1 [AD-A063752] p0178 N79-21771
- Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon Dioxide production during fever and its relationship with heat production [NASA-TM-75452] p0211 N79-24632
- Acid-base homeostasis in the human system [NASA-CR-160222] p0212 N79-24640
- Chemicals identified in human biological media, a pilot literature survey [PB-290690/7] p0214 N79-24649

SUBJECT INDEX**HUMAN FACTORS ENGINEERING**

- Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods p0287 N79-31924
- HUMAN BODY**
- Digital enhancement of computerized axial tomograms p0004 A79-11544
 - Heat transfer and temperature distribution in the human body p0041 A79-13612
 - Anatomical coordinate systems for human body segments p0065 A79-18231
 - Electromagnetic fields and power deposition in body-of-revolution models of man p0130 A79-26007
 - Model of human heat exchange and identification of its parameters Physiological studies and mathematical modeling p0159 A79-28739
 - Thermal conduction effects in human skin p0265 A79-47329
 - Comparison of physiological effects of head-down tilting and immersion on the human body p0298 A79-52279
 - A spherical representation of a human body for visualizing movement p0301 A79-53096
 - Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269
 - Variability in human body size p0032 N79-11736
 - Anthropometry p0032 N79-11737
 - Range of joint motion p0033 N79-11740
 - Human muscular strength p0033 N79-11741
 - Anthropometry in sizing and design p0033 N79-11742
 - The effects of ozone on human erythrocytes and phospholipid vesicles p0049 N79-12687
 - Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
 - Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-151853] p0051 N79-12697
 - Review of chest deflection measurement techniques and transducers [PB-283654/2] p0051 N79-12702
 - Aerodynamic forces exerted on an articulated human body subjected to windblast [AD-A059023] p0055 N79-13688
 - The distribution of cadmium and other metals in human tissues [PB-285200/2] p0057 N79-13703
 - Zinc [PB-285130/1] p0057 N79-13704
 - Analysis and validation of human biodynamic models [AD-A059013] p0058 N79-13714
 - Effects of hyperhydration on human endurance of orthostatic and LBNP tests p0072 N79-14721
 - Changes in human renal function in passive head-up and head-down positions p0072 N79-14722
 - Stability of circadian system of the body p0073 N79-14723
 - Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
 - Some recent results on the deposition of electromagnetic energy in animals and models of man p0083 N79-15563
 - Development opportunities in the space environment p0095 N79-15897
 - Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826] p0107 N79-16514
 - Effects of LBNP on catecholamines and adrenal cortex p0110 N79-16532
 - Correction of transcapillary exchange in man under the influence of rotation on a centrifuge while immersed in water p0110 N79-16533
 - Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement p0110 N79-16534
 - Instrumentation and techniques for the measurement of muscular strength and endurance in the human body [AD-A061023] p0155 N79-19681
 - Design specification for the whole-body algorithm [NASA-CR-160226] p0212 N79-24641
 - Study report on combining diagnostic and therapeutic considerations with subsystem and whole-body simulation [NASA-CR-160231] p0213 N79-24644
 - Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm [NASA-CR-160232] p0218 N79-25729
 - The development of a whole-body algorithm [NASA-CR-160214] p0218 N79-25730
 - Pneumotachographic distinctions of external respiration in man in the presence of excess intrapulmonary pressure on ground level and at high altitudes p0245 N79-27827
 - Refinement and validation of a mathematical model of the human torso p0247 N79-27841
 - The human micro-environment p0248 N79-27851
 - Effects of vibration on the human organism p0249 N79-27862
 - Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253] p0284 N79-31901
 - Transient intraventricular conduction defects observed during experimental impact in human subjects p0285 N79-31907
 - A human body and crew station modelling system for motion studies p0287 N79-31922
 - The biodynamic response of the human body and its application to standards p0288 N79-31929

HUMAN CENTRIFUGES

 - Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
 - External respiration and gas exchange reactions to exercise during rotation of man on a short-radius centrifuge p0193 N79-23639
 - Some human responses to repeated +G sub z pulses p0288 N79-31928
 - A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system [AD-A070912] p0309 N79-32841
 - External respiration and gas exchange reactions of man during rotation on a short-arm centrifuge p0313 N79-33812

HUMAN ENGINEERING

 - U HUMAN FACTORS ENGINEERING**
 - HUMAN FACTORS ENGINEERING**
 - A biophysical model for evaluating auxiliary heating and cooling systems --- for protective clothing systems design [ASME PAPER 78-ENAS-33] p0008 A79-12581
 - Firefighters Integrated Response Equipment System [ASME PAPER 78-ENAS-39] p0009 A79-12586
 - Intensity judgements of non-sinusoidal vibrations - Support for the ISO weighting method p0010 A79-12868
 - Human Factors Society, Annual Meeting, 21st, San Francisco, Calif., October 17-20, 1977, Proceedings p0035 A79-13181
 - Development and transfer of timesharing skills --- for human multiple task performance p0035 A79-13184
 - Effects of vibration on humans - Performance decrements and limits p0035 A79-13185
 - A composite view of task performance in hot environments p0036 A79-13186

- Human factors design criteria for transilluminated displays p0036 A79-13187
- Seating, console and workplace design - Seated operator reach profiles p0036 A79-13188
- Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189
- The application of computer aided evaluative techniques to system test and evaluation --- of fighter aircraft pilot performance p0036 A79-13190
- Imagery interpreter performance in the comparison of subjective estimates of photographic image quality p0036 A79-13191
- Discrimination of density and clustering on four versions of a stochastic display --- human performance of pattern recognition p0036 A79-13192
- Tracking in two dimensions as a function of dimension priorities and tracking difficulty p0036 A79-13193
- A prediction model of arm push strength in the transverse plane p0037 A79-13195
- Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool p0037 A79-13196
- Pour years of color research for visual displays --- human performance consideration for use in aircraft p0039 A79-13210
- Response surface methodology as a manipulator of complex task difficulty --- for computer generated aircraft area navigation control-display systems evaluation p0039 A79-13211
- Task functional demands as factors in dual-task performance p0039 A79-13214
- NASA flight management research p0040 A79-13218
- Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller [DGLR PAPER 78-149] p0042 A79-14094
- Anthropology in Spacelab - Control and display system in Spacelab [DGLR PAPER 78-151] p0042 A79-14096
- USAF life support equipment costs p0043 A79-14402
- Heat transfer principles in personal protection applications p0043 A79-14405
- Oxygen systems for Army helicopters p0044 A79-14421
- Human factors considerations in establishing aircraft collision avoidance system alert thresholds p0045 A79-14438
- Adaptive supervisory control of remote manipulation p0046 A79-14987
- Subjective data in human reliability estimates p0046 A79-15398
- Computer-graphic design for human performance [AD-A055132] p0046 A79-15399
- Man-machine reliability - A practical engineering tool p0047 A79-15400
- The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft p0061 A79-17683
- Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control p0061 A79-17695
- Human Factors Society, Annual Meeting, 22nd, Detroit, Mich., October 16-19, 1978, Proceedings p0062 A79-18201
- Quantifying operator preference during human factors test and evaluation --- in helicopter design p0062 A79-18202
- AWAVS, a research facility for defining flight trainer visual system requirements p0062 A79-18207
- Factors that affect display size criteria in a cockpit display system p0063 A79-18212
- Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix p0063 A79-18214
- Estimating percentiles of nonnormal anthropometric populations - Final report p0065 A79-18226
- Human engineering study of information processing applicable to helmet-mounted displays p0068 A79-18994
- Collision avoidance response stereotypes in pilots and nonpilots p0068 A79-18995
- Peripheral acuity and photointerpretation performance p0068 A79-18996
- Line criteria in target acquisition with television --- visibility of target image on TV screen p0068 A79-18997
- Evoked potential correlates of display image quality p0068 A79-18998
- Speed and load stress as determinants of performance in a time sharing task p0068 A79-18999
- Visual target acquisition and ocular scanning performance p0069 A79-19000
- A visual simulator with transformation of the perspective in the raster of television pictures --- German book on pilot training systems p0069 A79-19375
- Vigilance and electroencephalogram --- human performance in compensatory target tracking p0100 A79-22975
- A controller's eye view of color p0102 A79-23596
- Relations between research and instruction in physiology and aerospace ergonomics in the military health services p0104 A79-23960
- Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges p0129 A79-24878
- Digital man-machine control systems - The effects of preview lag p0131 A79-26149
- A theoretical model to estimate some ergonomic parameters from age, height and weight p0132 A79-26150
- Hyper-resolution in human perception of movement in visual displays p0132 A79-26240
- The human operator in the control system: Linear models --- German book p0132 A79-26356
- A comparison of kinesthetic-tactile and visual displays via a critical tracking task --- for aircraft control p0162 A79-29720
- The biomedical implications of engineering in space p0166 A79-31122
- Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries p0183 A79-33632
- The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use p0184 A79-33638
- Improved headgear for fixed wing Navy aircrews p0184 A79-33641
- Perception of continuity in stroboscopic motion - A temporal frequency analysis p0186 A79-34375
- Dynamics of the eye and head during movement between displays - A qualitative and quantitative guide for designers p0209 A79-38362
- Pilot workload in the aircraft of the future p0226 A79-40646
- Thermal bounds to the time of stay of human beings in enclosures

- Guidelines for designing machines and devices for acoustic vibrations from the point of view of the physiological and psychological properties of the human organism p0231 N79-41770
- The relative effects of multiple factors on target acquisition --- by combat pilots p0236 N79-43608
- Synthetic training and evaluation - Some current issues p0267 N79-47765
- Man and machine design for space flight p0275 N79-50550
- Thoughts about man-machine interrelations in space flights applied to Spacelab missions [IAF PAPER 79-95] p0300 N79-52696
- Considerations associated with the introduction of female crewmembers in spacecraft and space stations [IAF PAPER 79-A-22] p0302 A79-53295
- Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53424
- Human factors evaluation of the AN/UYQ-21 display console [AD-A056383] p0020 N79-10743
- Establishing habitability factors for the design of office environments [AD-A056463] p0020 N79-10744
- Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024] p0032 N79-11734
- Anthropometric changes in weightlessness p0032 N79-11735
- The inertial properties of the body and its segments p0033 N79-11738
- Arm-leg reach and workspace layout p0033 N79-11739
- Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies [SAND-77-2132] p0034 N79-11748
- A critially annotated bibliography of the literature on human factors in computer systems [AD-A0580811] p0052 N79-12707
- The effect of active area on the legibility of dot matrix displays [AD-A058014] p0052 N79-12708
- Development of recommendations to improve controls operability [PB-284433/0] p0053 N79-12714
- Human factors aspects of low light level television and forward looking infrared sensor displays. 1: A feasibility study of scaled subjective complexity of still scenes applied to computer image generation [AD-A058938] p0058 N79-13715
- Psychological experiment on components of the meaning of work p0071 N79-14709
- Evaluation of the amount of exposure to vibrations transmitted to the whole body case of vibrations due to a loader mounted on caterpillar tracks, a fork-lift truck and a hydraulic excavator [RAE-LIB-TRANS-1930] p0080 N79-14773
- Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971] p0080 N79-14774
- Reach capability of men and women: A three-dimensional analysis [AD-A060312] p0081 N79-14779
- Development of aerospace-aviation equipment described p0081 N79-14795
- Human performance in concurrent verbal and tracking tasks: A review of the literature [AD-A060493] p0085 N79-15585
- Human factors. Speech communication [PS-5/78] p0113 N79-16555
- Optimisation of pilot capability and avionic system design [AGARD-AR-118] p0113 N79-16560
- Optimisation of pilot capability and avionic system design, introduction p0113 N79-16561
- Human capabilities p0114 N79-16562
- The Helicopter p0114 N79-16568
- Some ergonomic aspects of adapting workrooms with visual display units to the human possibilities [IZP-1978-1] p0125 N79-17562
- Human factors evaluations of today's helicopters as an aid to future systems design p0150 N79-19627
- TADRAP: A computer-aided technique for reducing aircrew task analysis data --- helicopter design considering human factors p0150 N79-19628
- The use of biostereometry in helicopter cockpit design --- using a simulator and analytic geometry p0150 N79-19629
- Human factor engineering test and evaluation of the US Navy LAMPS helicopter system p0151 N79-19632
- A system of training in aviation physiology and human factors for Army and Navy helicopter aircrew p0151 N79-19635
- Visual requirements for the helicopter pilot p0151 N79-19636
- Providing an eye separator on a color cathode tube --- enhancing visual acuity p0152 N79-19639
- Simulated EVA operation of a remote connector assembly test report [NASA-CR-161167] p0156 N79-19687
- A methodology for conducting human factors evaluations of vehicles in operational field tests [AD-A061808] p0157 N79-19691
- Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1 [PB-290328/4] p0178 N79-21775
- Human factors in Space vehicles and space stations p0189 N79-22135
- Human factors analysis of visual distress signaling devices --- used by boaters [AD-A064174] p0190 N79-22765
- A human engineering specification for legibility of alphanumeric symbology on video monitor displays [AD-A064960] p0197 N79-23667
- MM/1, a man - machine interface: A contribution towards a standard [NPL-CSU-2/78] p0197 N79-23669
- The effects of pilot age, lighting, and head-down time on visual accomodation [AD-A064912] N79-25747
- A photometric and legibility assessment of Aerospace Optics, Incorporated Vivisun 20/20 display [AD-A067668] p0242 N79-26786
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
- Refinement and validation of a mathematical model of the human torso p0247 N79-27841
- Operator performance and localized muscle fatigue in a simulated space vehicle control task [NASA-TM-58220] p0259 N79-28867
- Development of information theory concepts and equations for human mental processing [AD-A068606] p0260 N79-28877
- Cold water survival suits for aircrew [ARL/SYS-NOTE-56] p0261 N79-28882
- Crew workload assessment. Development of a measure of operator workload [AD-A068616] p0261 N79-28884
- Isometric strength testing in selecting workers for strenuous jobs p0262 N79-29790
- Human processing of information and the computerized mode of presentation: Ergonomic parameters [FOA-C-56018-H9] p0263 N79-29797
- Multipurpose digital switching and flight control workload [AD-A069606] p0281 N79-30934
- A decision, monitoring and control model of the human operator applied to an RPV control problem [AD-A069880] p0282 N79-30939
- Development of human performance models for man-machine system simulation [AD-A069879] p0282 N79-30940

- Injury mechanisms analysis in aircraft accidents p0286 N79-31913
- A head injury model p0286 N79-31918
- Contributions of psychophysiological techniques to aircraft design and other operational problems [AGARD-AG-244] p0290 N79-31941
- Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254] p0290 N79-31942
- Three decades of USAF efforts to reduce human error accidents, 1947-1977 p0290 N79-31943
- Human factors in production and prevention of aircraft accidents due to disorientation in flight p0291 N79-31952
- Human performance in time-shared verbal and tracking tasks [AD-A070275] p0308 N79-32831
- The use of artificial signals during SONAR-watch [17F-1978-25] p0309 N79-32837
- Application of a structured decision process for proper inclusion of human resources in the design of a power unit support stand [AD-A069978] p0309 N79-32840
- Acoustic attitude orientation p0314 N79-33816
- A nonlinear mapping approach to discrimination of sleep stages from the human electroencephalogram p0314 N79-33817
- Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery [AD-A069375] p0314 N79-33819
- Laboratory performance during acute intoxication and hangover [AD-A069373] p0314 N79-33820
- Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs [AD-A070299] p0314 N79-33821
- Models of human operators in vision dependent tasks [NASA-CP-2103] p0317 N79-33838
- A survey of Applied Psychological Services' models of the human operator p0317 N79-33839
- Visual performance modeling in the human operator simulator p0317 N79-33840
- A brief overview of the theory and application of the optimal control model of the human operator p0317 N79-33841
- Development of an objective grading system along with procedures and aids for its effective implementation in flight [AD-A071106] p0318 N79-33846
- Workload and the certification of helicopters for IFR operation [AD-A072758] p0318 N79-33850
- A general model for the transfer of vapour through clothed skin from liquid on and in clothing [AD-A071577] p0319 N79-33853
- HUMAN FACTORS LABORATORIES**
- Ergonomics laboratory studies pilots' stability for command --- psychophysiological characteristics p0121 N79-17529
- HUMAN PATHOLOGY**
- The use of aviation pathology and aviation medicine as proof of liability and damage p0100 A79-22704
- Morbidity experience of air traffic control personnel - 1967-77 p0101 A79-23466
- Pneumothorax and flight personnel --- incidence, etiology and treatment p0103 A79-23956
- Automatic control of physiological functions of the human organism in pathology --- Russian book p0132 A79-26350
- Paroxysmal disorders of consciousness due to flight factors p0161 A79-29300
- Diagnostics of initial deficiency in cerebral circulation p0166 A79-31164
- Characteristics of serious carbon monoxide poisoning p0167 A79-32100
- Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression p0186 A79-34284
- Pathophysiology of overloads: Bibliography of Soviet publications --- Russian book p0200 A79-36385
- Coronary calcification in the diagnosis of coronary artery disease p0226 A79-40465
- The role of the neurohormone system of the hypothalamus in physiology and pathology --- Russian book p0251 A79-43835
- Magnetocardiography - An overview p0274 A79-50107
- Assessment of human exposures to atmospheric benzene [PB-284203/7] p0051 N79-12701
- Study report on combining diagnostic and therapeutic considerations with subsystem and whole-body simulation [NASA-CR-160231] p0213 N79-24644
- Results of a 64Cu-loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04] p0240 N79-26774
- The oral 64Cu-loading test: Applications and problems [IRI-133-78-02] p0240 N79-26775
- ESR studies on different pathological states [ISS-L-22/9] p0248 N79-27854
- HUMAN PERFORMANCE**
- NT ASTRONAUT PERFORMANCE p0002 A79-10847
- NT OPERATOR PERFORMANCE
- NT PILOT PERFORMANCE
- Mental work and emotions --- Russian book p0035 A79-13181
- Human Factors Society, Annual Meeting, 21st, San Francisco, Calif., October 17-20, 1977, Proceedings p0035 A79-13182
- Models for automated motor skills training --- computer controlled adaptive instruction p0035 A79-13182
- Perceptual delay - A consequence of metacontrast and apparent motion p0035 A79-13183
- Task taxonomy - Two ignored issues --- criteria for task evaluation with respect to empirical data p0039 A79-13212
- Coordinated crew performance in commercial aircraft operations p0040 A79-13219
- Vibration, performance, and personality --- vibration effects on human performance and psychological factors p0040 A79-13224
- Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery p0046 A79-14969
- Subjective data in human reliability estimates p0046 A79-15398
- System operability - Concept and measurement in test and evaluation --- man system compatibility indices in F-18 aircraft example p0062 A79-18204
- Application of performance model to assess aviator critical incidence p0063 A79-18209
- Secondary visual workload capability with primary visual and kinesthetic-tactile displays p0064 A79-18220
- Team performance - A model for research p0065 A79-18227
- Collision avoidance response stereotypes in pilots and nonpilots p0068 A79-18995
- Peripheral acuity and photointerpretation performance p0068 A79-18996
- Evoked potential correlates of display image quality p0068 A79-18998
- Structure of biorhythms as one of the criteria for physiological adaptability of the human organism p0097 A79-20653
- Vigilance and electroencephalogram --- human performance in compensatory target tracking p0100 A79-22975
- Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0102 A79-23471

- Carbon monoxide and human time discrimination -
Failure to replicate Beard-Wertheim experiments p0102 N79-23472
- A theoretical model to estimate some ergonomic parameters from age, height and weight p0132 N79-26150
- Comparative evaluation of the effectiveness of visual and aural tracking of a sinusoidal signal p0159 N79-28736
- Mechanics of the regulation of the respiratory system in man p0160 N79-29258
- The effects of carbon monoxide on dual-task performance p0161 N79-29716
- Discrimination, temperature, and time of day --- human performance variances p0161 N79-29718
- An algorithm to ascertain critical regions of human tracking ability p0163 N79-30218
- Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II p0166 N79-31178
- A bioengineering simulator of the human visual apparatus p0166 N79-31180
- Visual contrast sensitivity functions obtained with colored and achromatic gratings p0181 N79-32628
- Human error accidents - Some case studies --- for aircraft p0183 N79-33193
- A rationale for human operator pulsive control behavior p0186 N79-34520
- Effect of induced cyclic changes of deep body temperature on task performances p0202 N79-37708
- Physiologic and performance measurements in simulated airborne combined stress environments p0202 N79-37710
- Rhythms in human performance - 1-1/2-hour oscillations in cognitive style p0210 N79-39601
- Spatial frequency masking in human vision - Binocular interactions p0232 N79-42284
- Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 N79-43202
- Test of the 10 bits/sec channel-capacity hypothesis for human tracking p0253 N79-45771
- A study of the available evidence on duration effects on comfort and task proficiency under vibration p0254 N79-46399
- Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance p0299 N79-52327
- Development of a performance criterion for air traffic personnel research through air traffic control simulation [AD-A058082] p0031 N79-11727
- Life stress, organizational stress, and job satisfaction [AD-A055153] p0057 N79-13706
- Information processing in humans, volume 3. A bibliography with abstracts [NTIS/PS-78/1154/0] p0058 N79-13710
- Survey of human operator modeling techniques for measurement applications [AD-A058327] p0058 N79-13713
- Proceedings of the 1977 Computerized Adaptive Testing Conference [AD-A060049] p0079 N79-14771
- Human work measurement. A bibliography with abstracts [NTIS/PS-78/1197/9] p0081 N79-14781
- Relating performance in basic electricity and electronics and A schools [AD-A060914] p0085 N79-15584
- Human performance in concurrent verbal and tracking tasks: A review of the literature [AD-A060493] p0085 N79-15585
- A comparison of motor submodels in the optimal control model p0087 N79-15597
- Use of reward-penalty structures in human experimentation p0089 N79-15607
- The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance p0089 N79-15608
- A model for dynamic allocation of human attention among multiple tasks p0092 N79-15627
- The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
- Combined monitoring, decision and control model for the human operator in a command and control desk p0092 N79-15631
- A model of human event detection in multiple process monitoring situations p0092 N79-15632
- Vision p0095 N79-15894
- Human capabilities p0114 N79-16562
- The effects of deviate internal representations in the optimal model of the human operator p0114 N79-17477
- A quasi-linear control theory analysis of timesharing skills p0115 N79-17479
- A dual-loop model of the human controller p0115 N79-17480
- Parameter estimation in a human operator describing function model for a two-dimensional tracking task p0115 N79-17481
- Reduced mental capacity and behavior of a rider of a bicycle simulator under alcohol stress or under dual task load p0116 N79-17489
- A relationship between eye movement patterns and performance in a precognitive tracking task p0116 N79-17490
- A model of the human supervisor p0117 N79-17495
- The human as a detector of changes in variance and bandwidth p0117 N79-17496
- Task complexity and 24-hr performance patterns in morning and evening active subjects [FOA-C-52001-H6] p0122 N79-17537
- A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings [FAA-AM-78-37] p0123 N79-17547
- The measurement and scaling of workload in complex performance [FAA-AM-78-34] p0125 N79-17558
- Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations [BMVG-FBWT-78-11] p0146 N79-18593
- Simulated EVA operation of a remote connector assembly test report [NASA-CR-161167] p0156 N79-19687
- Graphical display of human motion [AD-A06434] p0190 N79-22763
- Individual differences in knowledge acquisition from maps [AD-A065040] p0196 N79-23663
- Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333] p0220 N79-25743
- Predicting individual listener confusions in the classification of complex, steady-state sounds [AD-A066704] p0222 N79-25755
- Effects of noise frequency on performance and annoyance [NASA-TM-80107] p0241 N79-26781
- The influence of hyperbaric environment in combination with workload and confinement on human information processing [DLR-FB-78-12] p0280 N79-30926
- Multipurpose digital switching and flight control workload

- [AD-A069606] p0281 N79-30934
 Development of human performance models for man-machine system simulation p0282 N79-30940
 [AD-A069879]
 Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters [BMVG-PBWT-78-18] p0282 N79-30944
 Progress in measuring and modeling the effects of low frequency vibration on performance p0288 N79-31930
 Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
 Hemispheric asymmetry as related to pilot and radar intercept officer performance [AD-A068087] p0289 N79-31935
 Human performance in time-shared verbal and tracking tasks [AD-A070275] p0308 N79-32831
 Acoustic attitude orientation p0314 N79-33816
 Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery [AD-A069375] p0314 N79-33819
 Laboratory performance during acute intoxication and hangover [AD-A069373] p0314 N79-33820
 The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845
 Development of an objective grading system along with procedures and aids for its effective implementation in flight [AD-A071106] p0318 N79-33846
 Human memory. A bibliography with abstracts [NTIS/PS-79/0640/7] p0318 N79-33847
- HUMAN REACTIONS**
- False hypothesis and the pilot --- aircraft accidents due to decision making errors [SAE PAPER 780528] p0001 A79-10399
 Human psychophysiology in extremal conditions --- Russian book on polar region adaptation p0048 A79-15977
 Effects of information processing requirements on reaction time of the eye p0064 A79-18219
 Startle reactions to simulated sonic booms - Influence of habituation, boom level and background noise p0097 A79-20502
 Responses of teachers to aircraft noise p0103 A79-23881
 A study of the available evidence on duration effects on comfort and task proficiency under vibration p0254 A79-46399
 Estimated body rotation as a predictor of motion sickness susceptibility p0273 A79-49990
 The effects of carbon monoxide and cyanide on the brain p0024 N79-11682
 The 14th Annual Conference on Manual Control --- digital simulation of human operator dynamics [NASA-CP-2060] p0086 N79-15588
 Directional errors of movements and their correction in a discrete tracking task --- pilot reaction time and sensorimotor performance p0086 N79-15589
 AAA gunnermodel based on observer theory --- predicting a gunner's tracking response p0087 N79-15594
 Closed loop models for analyzing the effects of simulator characteristics --- digital simulation of human operators p0087 N79-15598
 Discrete-time pilot model --- human dynamics and digital simulation p0088 N79-15601
 Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0109 N79-16526
- An investigation to determine the effect of physical conditioning upon fibrinolytic reactivity in normal young men p0110 N79-16536
 Effect on mice of microwaves in the non-thermal intensity region. Respiration, rectal temperature and mental reaction [FOA-C-54021-H2(H6)] p0120 N79-17523
 Heart rate: Physiological characteristics and quantification methods for use in behavioral studies [CSIR-SR-PERS-276] p0121 N79-17531
 Human health damages from mobile source air pollution: A delphi method, volume 1 [PB-288319/7] p0145 N79-18585
 A model for predicting human discomfort response to combined noise and vertical vibration p0156 N79-19685
 Effects of filtering electroencephalographic signals on auditory evoked brain stem responses p0176 N79-21758
 Discomfort criteria for single-axis vibrations [NASA-TP-1422] p0196 N79-23662
 Stress and fatigue in the driving environment --- physiological and psychological effects of heat and noise experienced inside automobiles p0211 N79-24629
 Physiological effects of a high soybean protein diet in man p0240 N79-26777
 Effects of amphetamine on response selection and response execution processes in choice reaction tasks [IZF-1978-8] p0309 N79-32839
- HUMAN TOLERANCES**
- Relaxed +Gz tolerance in healthy men - Effect of age p0067 A79-18956
 SPH-4 helmet damage and head injury correlation p0127 A79-24633
 Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection --- German book p0162 A79-29763
 Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
 Temporary threshold shift from transportation noise p0254 A79-46286
 Blood pressure variability of the individual in orthostatic testing p0265 A79-47328
 Evaluation of assisted positive-pressure breathing on +Gz tolerance p0266 A79-47336
 Reproducibility of +Gz tolerance testing p0267 A79-47337
 Aerospace highlights and potential medical applications --- in manned space flight p0293 A79-51027
 Bimodal relationship of human tremor and shivering on introduction to cold exposure p0298 A79-52278
 Quantitative review of human susceptibility to magnetic fields [UCID-17773] p0026 N79-11691
 Development opportunities in the space environment p0095 N79-15897
 Problems of human adaption to spaceflight p0157 N79-19985
 Multibody dynamics including translation between the bodies, with application to head-neck systems [AD-A062114] p0174 N79-20747
 A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
 Human discomfort response to noise combined with vertical vibration [NASA-TP-1374] p0190 N79-22761
 Discomfort criteria for single-axis vibrations [NASA-TP-1422] p0196 N79-23662
 Effects of noise frequency on performance and annoyance [NASA-TM-80107] p0241 N79-26781
 Effect of helicopter noise on passenger annoyance [NASA-TM-80106] p0241 N79-26782
 Thermal conduction effects in human skin. I: Experimental data acquisition [AD-A068479] p0259 N79-28871

- Thermal conduction effects in human skin. 3:
 Influence of epidermal thickness and exposure time
 [AD-A068481] p0259 N79-28872
- A subhuman primate restraint system
 [AD-A069607] p0279 N79-30915
- Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute
 [DLR-FB-78-10] p0280 N79-30925
- Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters
 [BMVG-FBWT-78-18] p0282 N79-30944
- The validation of biodynamic models
 p0286 N79-31914
- The use of mathematical modeling in crashworthy helicopter seating systems
 p0287 N79-31923
- The use of spinal analogue to compare human tolerance of repeated shocks with tolerance of vibration, part 1
 p0288 N79-31926
- Tentative evaluation of annoyance caused by noise from gunfire
 [IZF-1978-21] p0310 N79-32843
- Minimum sea surface temperatures and associated survival times
 [AD-A070162] p0315 N79-33824
- HUMAN WASTES**
- NT FECES
 NT SWEAT
 NT URINE
 Decreased activity of palladium catalyst during processing of excreta
 p0016 N79-10716
- Utilization of the wastes of vital activity
 [NASA-TM-75410] p0177 N79-21768
- HUMIDITY**
- The dependence of the CO₂ removal efficiency of LiOH on humidity and mesh size --- in spacecraft life support systems
 [ASME PAPER 78-ENAS-5] p0006 A79-12554
- Human skin wettedness and evaporative efficiency of sweating
 p0162 A79-29726
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
 [NASA-CASE-GSC-12191-1] p0156 N79-19688
- Flight prototype CO₂ and humidity control system
 [NASA-CR-160224] p0222 N79-25760
- HYBRID CIRCUITS**
- The use of hybrid integrated circuit techniques in biotelemetry applications
 p0131 A79-26145
- Hybridization of biomedical circuitry
 [NASA-CR-151874] p0111 N79-16543
- HYBRID COMPUTERS**
- Hybrid computation of left ventricular performance using noninvasive techniques
 [AD-A063749] p0190 N79-22758
- HYDRATION**
- Effects of hyperhydration on human endurance of orthostatic and LBNP tests
 p0072 N79-14721
- HYDRAULIC VALVES**
- U VALVES
- HYDRAZINES**
- Metabolism of hydrazine
 [AD-A062251] p0169 N79-20716
- Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation
 [AD-A064133] p0189 N79-22755
- HYDROCARBON FUELS**
- NT DIESEL FUELS
 NT JET ENGINE FUELS
- HYDROCARBONS**
- NT ETHYLENE
 NT KEROGEN
 NT METHANE
 Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria'
 p0232 A79-42274
- Clozapine metabolism in humans
 [BLL-RTS-10902] p0142 N79-18567
- HYDROCYANIC ACID**
- HCN did not condense to give heteropolypeptides on the primitive earth
 p0133 A79-26542
- HYDRODYNAMIC STABILITY**
- U FLOW STABILITY
- HYDROPOIL BOATS**
- U BOATS
- HYDROGEN**
- NT HYDROGEN IONS
 NT TRITIUM
- HYDROGEN COMPOUNDS**
- NT HYDROCYANIC ACID
 NT HYDROGEN SULFIDE
- HYDROGEN CYANIDES**
- U HYDROCYANIC ACID
- HYDROGEN IONS**
- Gating effects in Halobacterium halobium membrane transport
 p0268 A79-47849
- HYDROGEN ISOTOPES**
- NT TRITIUM
- HYDROGEN SULFIDE**
- Incorporation of sulphur in chemical evolution
 p0203 A79-37938
- Decreased activity of palladium catalyst during processing of excreta
 p0016 N79-10716
- HYDROGEN 3**
- U TRITIUM
- HYDROMECHANICS**
- NT HYDROSTATICS
- HYDROSTATIC PRESSURE**
- Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries
 p0183 A79-33632
- HYDROSTATICS**
- Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia
 p0313 N79-33809
- HYDROXIDES**
- NT LITHIUM HYDROXIDES
- HYDROXYL COMPOUNDS**
- NT ALCOHOLS
 NT ETHYL ALCOHOL
- HYDROXYL RADICALS**
- Raman and infrared investigations of the nature of intracellular water
 [AD-A061254] p0120 N79-17522
- HYGIENE**
- Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/
 p0303 A79-53486
- Spacecraft utensil/hand cleansing fixture
 [NASA-CR-151845] p0032 N79-11731
- Spacecraft utensil/hand cleansing fixture, addendum
 [NASA-CR-151846] p0032 N79-11732
- Environment monitoring in the USSR and hygienic practice --- anthropogenic effects
 p0121 N79-17528
- HYGRAL PROPERTIES**
- U MOISTURE CONTENT
- HYOSCINE**
- Prevention and treatment of space sickness in Shuttle-Orbiter missions
 p0128 A79-24639
- HYPERBARIC CHAMBERS**
- Capillary fragility during air exposure of man to 1-5 ATA and after decompression
 p0010 A79-12863
- Effect of hyperbaric oxygen on peripheral blood neutrophil metabolism
 p0245 N79-27830
- Immunobiological reactivity of the body under hyperbaric and hypobaric conditions
 p0310 N79-33790
- HYPERCAPNIA**
- Exercise ventilation correlates positively with ventilatory chemoresponsiveness
 p0066 A79-18954
- Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit
 p0101 A79-23075
- Contribution of rib cage and abdomen-diaphragm to tidal volume during CO₂ rebreathing
 p0185 A79-33805
- Epiphysis of rats under the combined action of hypoxia, hypercapnia and cooling
 p0256 A79-46680
- Responses of conscious rabbits to CO₂ at ambient temperatures of 5, 20, and 35 C

HYPEROPIA**SUBJECT INDEX**

- Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0277 A79-50904
 Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0194 N79-23641
HYPEROPIA
 Visual acuity of the aging hyperopic eye in the intermediate range p0311 N79-33798
HYPEROXIA
 The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs [IAF PAPER 78-51] p0002 A79-11221
 Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits p0134 A79-27120
 Mechanisms of the effect of oxygen toxicity on the energy metabolism p0160 A79-29275
 Glucose metabolism in rat lung during exposure to hyperbaric O₂ p0221 A79-36047
 Circulatory response to arterial hyperoxia p0221 A79-36048
 The effect of hyperoxia on the oxygen tension of blood and cerebral tissue p0208 A79-38146
 Determination of cerebral and neck subcutaneous tissue PO₂ with 3 and 4 +Gz in M. mulatta p0234 A79-43205
 Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology p0256 A79-46603
 The effect of normobaric hyperoxia on brain and liver tissue respiration in albino rats with different resistances to hypoxia p0296 A79-51113
 Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma p0017 N79-10721
 Metabolic responses of ponies to treadmill exercise in hyperoxia p0049 N79-12681
 Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
 The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
 The effect of hyperoxia on cerebral blood flow in the unanesthetized pony p0107 N79-16511
 Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
 Hyperbaric oxygenation. A bibliography with abstracts [NTIS/PS-79/0744/7] p0317 N79-33837
HYPERTENSIN
HT POLYPEPTIDES
HYPERTENSION
 Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen p0027 N79-11699
 Noninvasive assessment of pulmonary hypertension using bubble ultrasonic ringing (BURP) method, part 2 [PB-283935/5] p0051 N79-12699
 Noninvasive assessment of pulmonary hypertension [PB-285121/0] p0057 N79-13701
HYPERTHERMIA
 Fighter index of thermal stress /PITS/ - guidance for hot-weather aircraft operations p0202 A79-37715
 Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task p0234 A79-43204
 Intestinal transport of hexoses in the rat following chronic heat exposure p0236 A79-43701
 Hyperthermia and exercise --- plasma fluid and electrolyte effects on human thermoregulation p0252 A79-44775
 Heat- and exercise-induced hyperthermia - Effects on high-energy phosphates p0266 A79-47332
 Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051] p0017 N79-10728
 Hyperthermia in the treatment of cancer: A review of the radiobiological basis p0017 N79-10729
 The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum p0018 N79-10731
 A microangiographic study of the effect of hyperthermia on the rabbit bladder p0018 N79-10732
 Hypothermia. A bibliography with abstracts [NTIS/PS-79/0533/4] p0308 N79-32830
HYPERTONIA
 U OSMOSIS
HYPERTROPHY
 U GROWTH
HYPERVENTILATION
 Hyperventilation in aircrew - A review p0235 A79-43212
HYPNOSIS
 Stress management: A comparison of educational, aerobic and autosuggestive approaches p0260 N79-28875
HYPOBARIC ATMOSPHERES
 Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression p0185 A79-33806
 Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
 Immunobiological reactivity of the body under hyperbaric and hypobaric conditions p0310 N79-33790
HYPOCAPNIA
 Hyperventilation in aircrew - A review p0235 A79-43212
HYPODYNAMIA
 Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76] p0301 A79-53285
HYPOKINESIA
 Determination of muscle mass changes in legs from K-40 measurements p0274 A79-49997
 Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
 State of blood clotting during prolonged hypokinesia p0073 N79-14729
 Antiorthostatic hypokinesia as an approximate model of weightlessness p0108 N79-16520
 Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction p0108 N79-16521
 Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
 Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits p0108 N79-16523
 Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
 Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement p0110 N79-16534
 Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
 Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antiorthostatic hypokinesia p0193 N79-23635
 Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636

- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia p0194 N79-23644
- Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system p0245 N79-27831
- Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- Effect of restricted activity on vestibular function p0312 N79-33802
- Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
- Vertical orientation of man during 5-day antiorthostatic hypokinesia (-4, -8 and -12 deg head down position) p0313 N79-33810
- Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia p0313 N79-33813
- HYPOTHALAMUS**
- Interaction between hypothalamic and bulbar levels of regulating blood circulation p0098 A79-21242
- Effect of the blockade of hypothalamic adrenergic structures on thermoregulatory reactions p0167 A79-31950
- Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves p0188 A79-35918
- Characteristics of EEG changes in rabbits in response to local cooling or heating of the central thermosensory area p0221 A79-36097
- The role of the neurohormone system of the hypothalamus in physiology and pathology --- Russian book p0251 A79-43835
- Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
- Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733
- Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- HYPOTHERMIA**
- Systolic time intervals during combined hand cooling and head-up tilt p0135 A79-27554
- Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
- An improved method for inducing hypothermia and rewarming p0267 A79-47339
- Temperature uniformity in hyperthermal tumor therapy p0018 N79-10730
- The effect of moderate hypothermia on the circulatory and myocardial consequences of acute coronary ligation in dogs p0049 N79-12683
- Coma recovery p0094 N79-15891
- HYPOTHESES**
- False hypothesis and the pilot --- aircraft accidents due to decision making errors [SAE PAPER 780528] p0001 A79-10399
- HYPOXEMIA**
- Developmental and hematological responses to low level exposure of carbon monoxide in mice p0048 A79-16099
- Effects of chronic changes in hemoglobin-O2 affinity in rats p0185 A79-33808
- The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/ p0208 A79-38150
- Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
- HYPOXIA**
- The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs [IAF PAPER 78-51] p0002 A79-11221
- Exercise ventilation correlates positively with ventilatory chemoresponsiveness p0066 A79-18954
- 3'-5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia p0097 A79-20621
- Cerebral gas exchange in rats adapted to hypoxia during inspiration of oxygen-poor mixtures p0097 A79-20623
- Regional blood supply under hypoxic hypoxia p0097 A79-20652
- Temperature effect of muscular work in the white rat during hypoxia p0097 A79-20654
- Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0101 A79-23075
- Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m p0102 A79-23474
- Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits p0134 A79-27120
- Individual differences in hypoxic responses at high altitudes p0159 A79-28738
- Plasma electrolytes in relation to altitude tolerance in rats p0163 A79-30652
- Mechanical vs. ischemic mechanisms for decompression sickness p0164 A79-30656
- Effect of hypoxia on the development of Drosophila melanogaster /Meigen/ p0165 A79-30667
- Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- The response of the microvascular canal to a hypoxic helium-containing medium p0208 A79-38151
- Abolition of a viscerosomatic reflex during oxygen deprivation p0227 A79-41187
- Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201
- Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance p0235 A79-43210
- Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylycyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- Epiphysis of rats under the combined action of hypoxia, hypercapnia and cooling p0256 A79-46680
- Absence of effects of hypoxia on small airway function in humans p0268 A79-47851
- Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice p0268 A79-47855
- Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease p0272 A79-49731
- New inventory for the assessment of symptom occurrence and severity at high altitude p0273 A79-49991
- Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia p0277 A79-50905

IDENTIFYING**SUBJECT INDEX**

Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle p0296 A79-51111
 Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
 The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia p0296 A79-51116
 The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212] p0056 N79-13694
 Dynamics of impairment of pilot performance in the presence of hypoxia p0073 N79-14724
 Blood lipid changes in hypoxic rats p0074 N79-14731
 Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils p0074 N79-14732
 Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733
 Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol [AD-A059412] p0084 N79-15577
 A study of cerebral blood flow in the goat. A. Correlations between the ventilatory and cerebrovascular responses to carbon monoxide inhalation. B. The dynamics of the cerebral blood flow response to hypoxia by frequency response analysis p0107 N79-16510
 The effects of brain ischemia on the control of breathing in unanesthetized goats p0190 N79-23624
 Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0194 N79-23641
 The pulmonary circulation: Studies on alveolar hypoxia and vascular smooth muscle metabolism p0195 N79-23650
 Effect of acute hypoxia on some parameters of renal excretory function and renal hemodynamics p0245 N79-27828
 Altitude hypoxia, volume 1. A bibliography with abstracts [NTIS/PS-79/0427/9] p0280 N79-30927
 Altitude hypoxia, volume 2. A bibliography with abstracts [NTIS/PS-79/0428/7] p0280 N79-30928
 Effects of propranolol on Time of Useful Function (TUF) in rats --- tolerance to rapid decompression [AD-A068535/4] p0283 N79-31896
 Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes p0307 N79-32825
 Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798

IDENTIFYING

A review of individual performance in air-to-ground target detection and identification studies [AD-A061580] p0124 N79-17551
 Microbial load monitor [NASA-CR-160274] p0243 N79-27815
IFR (RULES)
U INSTRUMENT FLIGHT RULES
ILLUMINATING
 Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight p0152 N79-19649

ILLUSIONS

NT OCULOGRAVIC ILLUSIONS
 NT OPTICAL ILLUSION
 Changes in apparent body orientation and sensory localization induced by vibration of postural

muscles - Vibratory myesthetic illusions p0163 A79-30653
 Sensory illusions of vestibular origin p0255 A79-46596
 The physiologist's view of sensory illusions p0255 A79-46597
ILS (LANDING SYSTEMS)
U INSTRUMENT LANDING SYSTEMS
IMAGE CONTRAST
 Perceptual delay - A consequence of metacontrast and apparent motion p0035 A79-13183
 Contrast enhancement using local area brightness and gain control --- of airborne CRT display p0037 A79-13199
 Visual acuity with regard to simultaneous colored contrast on a television screen - Results p0103 A79-23952
 Contrast effects on smooth-pursuit eye movement velocity p0104 A79-24068
 Visual contrast sensitivity functions obtained with colored and achromatic gratings p0181 A79-32628
 Effects of stimulus onset and image motion on contrast sensitivity p0231 A79-42231
 Contrast sensation - A linear function of stimulus contrast p0271 A79-49483
IMAGE ENHANCEMENT
 Digital enhancement of computerized axial tomograms p0004 A79-11544
 Contrast enhancement using local area brightness and gain control --- of airborne CRT display p0037 A79-13199
 Digital image anomalies - Static and dynamic --- rastering and aliasing effects and elimination p0137 A79-28158
 Autoradiographic enhancement of mammograms p0227 A79-40773
IMAGE FILTERS
 Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
 Investigation of nonlinear motion simulator washout schemes p0091 N79-15624
IMAGE MOTION COMPENSATION
 Subjective motion discrimination in the simulator for air-to-air combat [AD-A059742] p0079 N79-14770
 Influence of motion wash-out filters on pilot tracking performance [NLR-MP-78005-0] p0124 N79-17554
IMAGE PROCESSING
 The robot's eyes - Stereo vision system for automated scene analysis p0004 A79-12006
 Imagery interpreter performance in the comparison of subjective estimates of photographic image quality p0036 A79-13191
 Digital color image compression in a perceptual space p0136 A79-28013
 Robotic vision --- process control applications p0187 A79-34984
 Computer quantitation of coronary angiograms p0293 A79-51030
 Visual motion perception by intelligent systems p0300 A79-52691
 Psychological aspects of the human-operator's activity while tracking [RAE-LIB-TRANS-1979] p0079 N79-14768
 General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4] p0113 N79-16556
 Image processing program completion report [AD-A061597] p0123 N79-17549
 Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis [NASA-CR-162103] p0279 N79-30922
IMAGE RESOLUTION
 High-speed computerized tomography p0004 A79-12030
 Hyper-resolution in human perception of movement in visual displays p0132 A79-26240

- Motion and vision. I - Stabilized images of stationary gratings p0278 A79-50986
- The retinal resolving power measured by laser interference fringes p0304 A79-54091
- IMAGE TRANSDUCERS**
- Thermal activation of the visual transduction mechanism in retinal rods p0230 A79-41746
- IMAGERY**
- NT ANGIOGRAPHY
- NT AUTORADIOGRAPHY
- NT CINEMATOGRAPHY
- NT HOLOGRAPHY
- NT RADAR IMAGERY
- NT RADIOGRAPHY
- NT STEREOPHOTOGRAPHY
- NT TOMOGRAPHY
- IMAGES**
- NT RETINAL IMAGES
- A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983] p0308 N79-32833
- IMAGING TECHNIQUES**
- NT IMAGE ENHANCEMENT
- NT RADAR IMAGERY
- High-speed computerized tomography p0004 A79-12030
- Detection of bubbles in decompression sickness p0041 A79-13573
- A visual simulator with transformation of the perspective in the raster of television pictures --- German book on pilot training systems p0069 A79-19375
- A binocular stereoscopic display system for echocardiography p0130 A79-26072
- Visual simulation and image realism; Proceedings of the Seminar, San Diego, Calif., August 30, 31, 1978 p0137 A79-28156
- Component performance of a 360 deg non-programmed visual display --- laser image flight simulator p0137 A79-28163
- A 25-inch precision color display for simulator visual systems p0137 A79-28164
- Training effectiveness versus simulation realism p0138 A79-28166
- Application of Fresnel lenses to virtual image display --- for training simulators p0139 A79-28173
- Real-time reconnaissance systems simulator p0139 A79-28175
- Dynamics of an image viewed through a rotating mirror p0221 A79-36365
- The visual perception of motion in depth p0210 A79-39087
- Temperature changes during exercise measured by thermography p0235 A79-43209
- Visually estimating workpiece pose in a robot hand using the feature points method p0269 A79-48018
- Current status of cardiovascular imaging by transmission computed tomography p0294 A79-51032
- Iodine imaging using spectral analysis --- radiography for visualization of small blood vessels p0294 A79-51034
- Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-RWV-1] p0018 N79-10735
- Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
- Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0] p0085 N79-15581
- Pattern of heat loss from a subject wearing CP temperate-climate combat clothing [AD-A057746] p0093 N79-15636
- Region extraction using convergent evidence [AD-A061591] p0124 N79-17552
- X-ray backscatter imaging p0176 N79-21754
- An investigation of the pulse-scatter imaging technique for medical ultrasonic imaging and tissue characterization p0211 N79-24628
- IMMERSION**
- U SUBMERGING
- IMMOBILIZATION**
- Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats p0268 A79-47856
- IMMUNITY**
- Microflora analysis of a child with severe combined immune deficiency p0004 A79-11900
- Effect of space flight on cell-mediated immunity --- COSMOS 782 satellite p0021 N79-11661
- Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5 p0107 N79-16515
- Suppression of the immune response by ultrasound p0142 N79-18560
- Studies of microbial flora and immunity of Salyut-3 crew p0192 N79-23629
- Immunobiological reactivity of the body under hyperbaric and hypobaric conditions p0310 N79-33790
- IMMUNOLOGY**
- Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- Isolation of virus-augmented tumor antigens p0142 N79-18564
- Immunological effects of microwave action p0172 N79-20736
- Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites p0244 N79-27824
- Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- IMPACT ACCELERATION**
- Some Bayesian inference procedures for use in developing an impact acceleration injury prediction model [AD-A067228] p0220 N79-25741
- Tolerance of the neck to indirect impact [AD-A066971] N79-25749
- Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253] p0284 N79-31901
- Prediction of whole-body response to impact forces in flight environments p0284 N79-31902
- Multiaxis dynamic response of the human head and neck to impact acceleration p0284 N79-31906
- Transient intraventricular conduction defects observed during experimental impact in human subjects p0285 N79-31907
- Potential relationship between human central nervous system injury and impact forces based on primate studies p0286 N79-31919
- The effect of impact acceleration on the electrical activity of the brain p0287 N79-31921
- The response of a realistic computer model for sitting humans to different types of shocks p0288 N79-31927
- Significance of the vibration component to the deleterious effect of impact accelerations p0312 N79-33801
- Effect of impact accelerations on chemical resistance of rat erythrocytes p0313 N79-33811
- IMPACT DAMAGE**
- Various modeling approaches in biomechanics --- analog simulation of impact events p0005 A79-12407

IMPACT DECELERATION**SUBJECT INDEX**

- Aircrew helmet protection against potential cerebral concussion in low-magnitude impacts p0201 N79-37705
- A head injury model p0286 N79-31918
- Correlation of head injury with mechanical forces based on helmet damage duplication p0287 N79-31920
- IMPACT DECELERATION**
- U IMPACT ACCELERATION**
- IMPACT TESTS**
- Whole body response research program [PB-286151/6] p0093 N79-15640
- Whole body response research program. Appendix A: Methodology [PB-286152/4] p0094 N79-15641
- Whole body response research program. Appendix C: Processed data [PB-286154/0] p0094 N79-15643
- Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006] p0157 N79-19690
- Calibration of three year old child dummies [PB-288961/6] p0157 N79-19692
- Evaluation of research on surrogates for humans in motor vehicle crashes [PB-291012/3] p0178 N79-21774
- Impact tests on crash helmets for motor cyclists [AD-A065966] p0197 N79-24655
- Animal endurance to recurrent impact accelerations p0246 N79-27833
- IMPACT TOLERANCES**
- A failure criterion for human, vertebral, cancellous bone p0285 N79-31912
- IMPEDANCE**
- NT ELECTRICAL RESISTANCE**
- NT RESPIRATORY IMPEDANCE**
- IMPEDANCE MEASUREMENTS**
- Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography p0098 A79-21243
- IMPLANTATION**
- Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545
- IMPLANTED ELECTRODES (BIOLOGY)**
- Telemetry of intracranial pressure p0227 A79-41400
- An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424
- Electric field measurements within biological media p0083 N79-15562
- Improved subcutaneous electrode structure [NASA-CASE-ARC-11117-1] p0084 N79-15576
- Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- Metal bioelectrode polarization: A frequency and time domain analysis p0176 N79-21755
- IN-FLIGHT MONITORING**
- Instrumentation for controlling and monitoring environmental control and life support systems [ASME PAPER 78-ENAS-40] p0009 A79-12587
- Aerobiotelemetry from a fighter aircraft p0200 A79-37131
- The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases p0256 A79-46600
- In-flight measures of stress reduction due to wearing expandable foam earplugs p0273 A79-49986
- Aircrew inflight physiological data acquisition system 2 [AD-A055638] p0055 N79-13690
- Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487] p0072 N79-14716
- Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
- Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720
- Dynamics of impairment of pilot performance in the presence of hypoxia p0073 N79-14724
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
- Evaluation of aircrew fatigue during operational helicopter flight mission p0149 N79-19622
- INACTIVATION**
- U DEACTIVATION**
- INDEPENDENT VARIABLES**
- Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
- Quantitative analysis of selected bone parameters p0022 N79-11668
- INDIA**
- Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India p0201 A79-37135
- INDICATING INSTRUMENTS**
- NT APPROACH INDICATORS**
- NT HOT-FILM ANEMOMETERS**
- Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller [DGLR PAPER 78-149] p0042 A79-14094
- INDOLES**
- NT TRYPTOPHAN**
- Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
- INDUCED FLUID FLOW**
- U FLUID FLOW**
- INDUSTRIAL MANAGEMENT**
- NT PERSONNEL MANAGEMENT**
- INDUSTRIAL SAFETY**
- A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11685
- A literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it [AD-A056018] p0025 N79-11686
- Antiradiation suit and other special clothing at industrial safety exhibition p0114 N79-16793
- Radiation protection activities, 1977 [PB-290215/3] p0176 N79-21759
- Problems related to the assessment of safe exposure levels for radio frequency and microwave radiation [ISS-P-78/7] p0248 N79-27855
- Biological effects of microwaves, volume 2. A bibliography with abstracts [NTIS/PS-79/0433/7] p0280 N79-30930
- INDUSTRIES**
- Study of pharmaceutical industrial problems [NASA-CR-160267] p0248 N79-27852
- INELASTIC BODIES**
- U RIGID STRUCTURES**
- INERT GASES**
- U RARE GASES**
- INERTIA MOMENTS**
- U MOMENTS OF INERTIA**
- INFARCTION**
- NT MYOCARDIAL INFARCTION**
- INFECTIONS**
- U INFECTIOUS DISEASES**
- INFECTIOUS DISEASES**
- NT CONTACT DERMATITIS**
- A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures p0104 A79-23958
- The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells p0141 N79-18558
- INFERENCE**
- Some Bayesian inference procedures for use in

- developing an impact acceleration injury prediction model
[AD-A067228] p0220 N79-25741
- INFLATABLE DEVICES**
- U INFLATABLE STRUCTURES**
 - INFLATABLE STRUCTURES**
 - NT AIR BAG RESTRAINT DEVICES**
 - NT GAS BAGS**
 - Design considerations for inflatable head/neck restraint systems p0043 A79-14407
 - An inflatable restraint system --- for helicopter crash protection p0044 A79-14408
 - An assessment of the RAE Type 'B' full pressure suit automatic head enclosure p0044 A79-14432
 - Spine immobilization method and apparatus --- rigid bladder [NASA-CASE-ARC-11167-1] p0279 N79-30921
- INFLATING**
- Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1 [PB-290328/4] p0178 N79-21775
- INFORMATION DISSEMINATION**
- Pilot preflight briefing utilizing an interactive computer generated Voice Response System p0167 A79-31887
- INFORMATION MANAGEMENT**
- Communications management by the remote system - An adaptive approach --- modeling of RPV autopilot/operator systems p0041 A79-13226
- INFORMATION RETRIEVAL**
- A preliminary investigation of aural input/output systems for in-flight information retrieval [AD-A063174] p0178 N79-21770
- INFORMATION SYSTEMS**
- Refinement of a computer simulation model for evaluating DAIS display concepts --- Digital Avionics Information System p0038 A79-13209
 - The role of cognitive switching in head-up displays --- to determine pilot ability to accurately extract information from either of two sources [NASA-CR-3137] p0318 N79-33851
- INFORMATION THEORY**
- Petri nets as a modeling tool for discrete concurrent tasks of the human operator --- describing sequential and parallel demands on human operators p0088 N79-15600
 - Development of information theory concepts and equations for human mental processing [AD-A068606] p0260 N79-28877
- INFORMATION TRANSMISSION**
- U DATA TRANSMISSION**
 - INFRARED DETECTORS**
 - NT FLIR DETECTORS**
 - INFRARED INSTRUMENTS**
 - NT FLIR DETECTORS**
 - Temperature changes during exercise measured by thermography p0235 A79-43209
- INFRARED RADIATION**
- NT FAR INFRARED RADIATION**
 - Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength --- corneal damage p0002 A79-10648
 - No harmful effects through infrared light emitting diodes p0184 A79-33650
 - Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
 - Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
 - Nonionizing radiation protection special study: Infrared radiation hazard evaluation of the rotary forge, Watervliet Arsenal, Watervliet, New York, March - April 1978 [AD-A055643] p0055 N79-13691
- INFRARED SPECTRA**
- Raman and infrared investigations of the nature of intracellular water [AD-A061254] p0120 N79-17522
- INGESTION (BIOLOGY)**
- NT DRINKING**
 - Effect of sodium and calcium ingestion on thermoregulation during exercise in man p0163 A79-30624
- INHABITANTS**
- NT MOUNTAIN INHABITANTS**
- INHALATION**
- U RESPIRATION**
- INHIBITION (PSYCHOLOGY)**
- The inhibitory trace effect as a manifestation of the integrative activity of the human brain in performing voluntary motor acts p0159 A79-28737
 - Mutual repulsion between moving visual targets p0275 A79-50473
- INHIBITORS**
- Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates p0121 N79-17527
- INITIAL VALUE PROBLEMS**
- U BOUNDARY VALUE PROBLEMS**
- INJURIES**
- NT BACK INJURIES**
 - NT BAROTRAUMA**
 - NT BRAIN DAMAGE**
 - NT BURNS (INJURIES)**
 - NT CRASH INJURIES**
 - NT EJECTION INJURIES**
 - NT LESIONS**
 - NT NOISE INJURIES**
 - NT PULMONARY LESIONS**
 - NT RADIATION INJURIES**
 - NT WHIPLASH INJURIES**
 - Accident injuries and flying fitness p0182 A79-33189
 - An illness-injury severity index p0050 N79-12688
 - Knee flail design limits: Background, experimentation and design criteria [AD-A062384] p0220 N79-25746
 - Injury mechanisms analysis in aircraft accidents p0286 N79-31913
 - Potential relationship between human central nervous system injury and impact forces based on primate studies p0286 N79-31919
 - Correlation of head injury with mechanical forces based on helmet damage duplication p0287 N79-31920
- INORGANIC COMPOUNDS**
- NT AMMONIA**
- INORGANIC SULFIDES**
- NT HYDROGEN SULFIDE**
- INOSITOLS**
- Interaction between inositol hexaphosphate and carbobenzoxy peptide - A model for nucleic acid - Nonhistone chromosomal protein interaction p0100 A79-22082
- INPUT/OUTPUT ROUTINES**
- A preliminary investigation of aural input/output systems for in-flight information retrieval [AD-A063174] p0178 N79-21770
- INSECTS**
- NT DROSOPHILA**
 - Effects of weightlessness on the genetics and aging process of drosophila melanogaster p0023 N79-11673
 - Radar, Insect Population Ecology, and Pest Management [NASA-CP-2070] p0147 N79-19592
 - The role of insect dispersal and migration in population processes p0147 N79-19593
 - Short-range movement of major agricultural pests p0148 N79-19594
 - Dispersal of forest insects p0148 N79-19596
 - Strategic and tactical use of movement information in pest management p0148 N79-19597
 - Capabilities of radar as they might relate to entomological studies p0148 N79-19598
 - Possible impact of radar on pest management operations p0148 N79-19599

INSENSITIVITY

SUBJECT INDEX

Radar observation of insects: Mosquitoes	p0148 N79-19600	p0204 A79-37948
INSENSITIVITY		
U SENSITIVITY		
INSERTION		
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1]	p0246 N79-27836	
INSTRUCTIONS		
U EDUCATION		
INSTRUMENT APPROACH		
The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing	p0063 A79-18210	
An investigation of pictorial and symbolic aircraft displays for landing	p0063 A79-18211	
INSTRUMENT FLIGHT RULES		
Transfer of a computer-assisted instrument procedures trainer to flight	p0039 A79-13216	
An analysis of helicopter pilot control behavior and workload during instrument flying tasks	p0150 N79-19630	
Visual performance/workload of helicopter pilots during instrument flight	p0152 N79-19640	
Workload and the certification of helicopters for IFR operation [AD-A072758]	p0318 N79-33850	
INSTRUMENT LANDING SYSTEMS		
NT ALL-WEATHER LANDING SYSTEMS		
Airliner pilot scan patterns during simulated ILS approaches [NASA-TP-1250]	p0155 N79-19682	
INSTRUMENTAL ANALYSIS		
U AUTOMATION		
INSULATION		
NT THERMAL INSULATION		
INSULIN		
Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C14/U-glucose in diabetic rats	p0252 A79-44797	
INTEGRAL TRANSFORMATIONS		
NT FAST FOURIER TRANSFORMATIONS		
INTEGRATED CIRCUITS		
NT LARGE SCALE INTEGRATION		
The use of hybrid integrated circuit techniques in biotelemetry applications	p0131 A79-26145	
Very-large-scale integration - What it means for technical systems and humans	p0181 A79-32640	
INTEGRATED OPTICS		
The development of integrated multidimensional displays	p0187 A79-34990	
INTEGRATION (REAL VARIABLES)		
U MEASURE AND INTEGRATION		
INTELLIGENCE		
NT ARTIFICIAL INTELLIGENCE		
NT EXTRATERRESTRIAL INTELLIGENCE		
Intelligence	p0095 N79-15896	
INTELLIGIBILITY		
NT SPEECH RECOGNITION		
INTERACTIVE GRAPHICS		
U COMPUTER GRAPHICS		
INTERCEPTOR AIRCRAFT		
U FIGHTER AIRCRAFT		
INTERCOSMOS SATELLITES		
Medicobiological research within the framework of the scientific program 'Intercosmos'	p0181 A79-32658	
INTERFACES		
Modeling and analysis of man-machine interface information [AD-A063515]	p0178 N79-21772	
INTERFEROGRAMS		
U INTERFEROMETRY		
The retinal resolving power measured by laser interference fringes	p0304 A79-54091	
INTERMOLECULAR FORCES		
An approach to the origin of self-replicating system. I - Intermolecular interactions		
INTERNATIONAL COOPERATION		
The joint US-USSR biological satellite program	p0182 A79-33050	
Communication problems of international crews [IAF PAPER 79-A-23]	p0303 A79-53425	
US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-78526]		
The Cosmos 936 mission	p0023 N79-11671	
INTERNATIONAL RELATIONS		
NT INTERNATIONAL COOPERATION		
INTERPLANETARY SPACECRAFT		
NT VIKING LANDER SPACECRAFT		
NT VIKING SPACECRAFT		
INTERSTELLAR CHEMISTRY		
Lifecloud: The origin of life in the universe --- Book	p0061 A79-17123	
INTERSTELLAR MATTER		
Prebiotic molecular evolution	p0203 A79-37928	
Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988]	p0081 N79-14782	
INTESTINES		
Intestinal transport of hexoses in the rat following chronic heat exposure	p0236 A79-43701	
The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum	p0018 N79-10731	
Intestinal autoflora as an indicator of severity of radiation lesion	p0121 N79-17530	
Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs	p0312 N79-33803	
INTOXICATION		
A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019]	p0025 N79-11685	
The effects of alcohol on driver performance in a decision making situation	p0092 N79-15629	
Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery [AD-A069375]	p0314 N79-33819	
Laboratory performance during acute intoxication and hangover [AD-A069373]	p0314 N79-33820	
INTRACRANIAL PRESSURE		
Telemetry of intracranial pressure	p0227 A79-41400	
INTRAMOLECULAR STRUCTURES		
Microwave frequencies and the structure of the double helix	p0082 N79-15559	
INTRAOOCULAR PRESSURE		
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel	p0104 A79-23959	
Intraocular pressure reduction and regulation system [NASA-TM-79187]	p0260 N79-28881	
Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub Z stress	p0286 N79-31916	
INTRAVASCULAR SYSTEM		
Transient intraventricular conduction defects observed during experimental impact in human subjects		
INVERSIONS		
NT CENTRIPUGING STRESS		
INVERTEBRATES		
NT ARTEMIA		
NT ARTHROPODS		
NT DROSOPHILA		
NT INSECTS		
NT PARAMECIUM		
NT SPORSES		
NT WORMS		

SUBJECT INDEX**JET AIRCRAFT**

- Methods for measuring the acute toxicity of effluents to aquatic organisms [PB-289605/8] p0170 N79-20719
- INVESTIGATION**
NT AIRCRAFT ACCIDENT INVESTIGATION
- INVISIBILITY**
U VISIBILITY
- IODINE**
Iodine imaging using spectral analysis --- radiography for visualization of small blood vessels p0294 A79-51034
- ION MOTION**
Relationship between proton motive force and potassium ion transport in Halobacterium halobium envelope vesicles p0227 A79-40775
- ION-GAS INTERACTIONS**
U GAS-ION INTERACTIONS
- IONIC DIFFUSION**
Light-driven solute transport in Halobacterium halobium p0270 A79-49194
- IONIZED GASES**
NT CATIONS
- IONIZING RADIATION**
NT BETA PARTICLES
NT COSMIC RAYS
NT GAMMA RAYS
NT ULTRAVIOLET RADIATION
3'5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- Pulmonary functional tolerance to ionizing radiation - An experimental study p0256 A79-46601
- Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- Recovery of hemopoiesis in rats exposed to radiation during space flight p0014 N79-10701
- Effects of long-term and chronic radiation on hemopoiesis p0016 N79-10719
- The Department of the Army's food irradiation program: Is it worth continuing [PB-286399/1] p0094 N79-15644
- Chemical protection against ionizing radiation: A survey of possible mechanisms [MLB-1977-8] p0122 N79-17540
- A technical review of the biological effects of non-ionizing radiation [PB-290166/8] p0171 N79-20728
- Effects on populations of exposure to low levels of ionizing radiation: Implications for nuclear energy and medical radiation [LBL-9084] p0316 N79-33833
- Health effects of low-level ionizing radiation [LBL-9018] p0316 N79-33834
- IONOSPHERIC ABSORPTION**
U ELECTROMAGNETIC ABSORPTION
- IONS**
NT CATIONS
NT HYDROGEN IONS
NT METAL IONS
NT MOLECULAR IONS
NT POSITIVE IONS
Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions p0075 N79-14743
- Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- IP (IMPACT PREDICTION)**
U COMPUTERIZED SIMULATION
- IRON**
Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
- IROQUOIS HELICOPTER
U OH-1 HELICOPTER
- IRRADIATION**
NT X RAY IRRADIATION
- Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field p0074 N79-14737
- The effect of 17alpha-ethynodiol on the radiation sensitivity of mice p0141 N79-18557
- Cell response to chronic irradiation-modeling and simulation studies p0142 N79-18562
- Biological effects of laser irradiation on nerve cells p0247 N79-27840
- IRRITATION**
NT TOXICITY AND SAFETY HAZARD
Official method for determining ocular irritation [BLL-RTS-11221] p0142 N79-18571
- ISCHEMIA**
Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
- The evolutionary pattern of exercise-induced ST segment depression p0251 A79-44166
- Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease p0272 A79-49731
- Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- A prospective medicine approach to the problem of ischemic vascular disease in the USAF p0027 N79-11697
- Molecular determinants for the prediction and survival of ischemic anoxic stress pathology p0027 N79-11700
- ISING MODEL**
U MATHEMATICAL MODELS
- ISOLATION**
Microflora analysis of a child with severe combined immune deficiency p0004 A79-11900
- Isolation of virus-augmented tumor antigens p0142 N79-18564
- ISOPROPYL COMPOUNDS**
Effects of propranolol on Time of Useful Function (TUF) in rats --- tolerance to rapid decompression [AD-A068535/4] p0283 N79-31896
- ISOTOPES**
NT AMERICIUM 241
NT CARBON 14
NT CHROMIUM ISOTOPES
NT COPPER ISOTOPES
NT IRON ISOTOPES
NT POTASSIUM 40
NT SODIUM ISOTOPES
NT SODIUM 22
NT TRITIUM
- ISOTOPIC LABELING**
Kinetic measurements of bone mineral metabolism: The use of Na-22 as a tracer for long-term bone mineral turnover studies [NASA-CR-151868] p0111 N79-16544
- Study report on a double isotope method of calcium absorption [NASA-CR-160194] p0216 N79-25712
- J**
- JACKS (ELECTRICAL)**
U ELECTRIC CONNECTORS
- JAGUAR AIRCRAFT**
.Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations p0266 A79-47334
- JARRING**
U MECHANICAL SHOCK
- JEEPS**
U AUTOMOBILES
- JET AIRCRAFT**
NT A-7 AIRCRAFT
NT C-135 AIRCRAFT
NT C-141 AIRCRAFT
NT F-4 AIRCRAFT
NT F-15 AIRCRAFT
NT F-16 AIRCRAFT

NT F-18 AIRCRAFT
 NT F-104 AIRCRAFT
 NT F-111 AIRCRAFT
JET ENGINE FUELS
 Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870
JET FUELS
 U JET ENGINE FUELS
JET PILOTS
 U AIRCRAFT PILOTS
JITTER
 U VIBRATION
JOBs
 U TASKS
JOINTS (ANATOMY)
 NT KNEE (ANATOMY)
 NT WRIST
 Passive resistive torques about long bone axes of major human joints p0298 A79-52283
 Range of joint motion p0033 N79-11740
 A quasi-linear control theory analysis of timesharing skills p0120 N79-17520
 The relationship between adult articular cartilage thickness and dynamic loads of a uniaxial joint p0154 N79-19671
 Spacesuit mobility knee joints [NASA-CASE-ARC-11058-2] p0214 N79-24651
JUPITER ATMOSPHERE
 Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075

K

KAOLINITE
 Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide p0162 A79-29938
KC-135 AIRCRAFT
 U C-135 AIRCRAFT
KEROGEN
 Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419
KETONES
 Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
KIDNEYS
 Compensatory reactions of the kidneys to orthostatic factors p0015 N79-10708
KINEMATICS
NT BODY KINEMATICS
 The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776
 Reach capability of men and women: A three-dimensional analysis [AD-A060312] p0081 N79-14779
KINESTHESIA
 Secondary visual workload capability with primary visual and kinesthetic-tactile displays p0064 A79-18220
KINESTHESIS
 U PROPRIOCEPTION
KINETIC THEORY
 NT TRANSPORT THEORY
KINETICS
 NT REACTION KINETICS
 Biological effects of a magnetic field p0172 N79-20734
 The growth kinetics of freshwater algae p0174 N79-21740
KNEE (ANATOMY)
 Computer design synthesis of a below knee-Syame prosthesis p0251 A79-44300
 Knee flail design limits: Background, experimentation and design criteria [AD-A062384] p0220 N79-25746
KU BAND
 U SUPERHIGH FREQUENCIES

KUIPER AIRBORNE OBSERVATORY
 U C-141 AIRCRAFT

L

L BAND
 U ULTRAHIGH FREQUENCIES
LABELING (MARKING)
 U MARKING
LABOR
 Isometric strength testing in selecting workers for strenuous jobs p0262 N79-29790
LABORATORIES
 NT HUMAN FACTORS LABORATORIES
 NT MANNED ORBITAL LABORATORIES
 NT SPACE LABORATORIES
 Some ergonomic aspects of adapting workrooms with visual display units to the human possibilities [IZF-1978-1] p0125 N79-17562
LABORATORY EQUIPMENT
 Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56] p0003 A79-11224
 Two primate biological facility module in Spacelab [IAF PAPER 78-70] p0003 A79-11229
 Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37] p0008 A79-12584
 Some ergonomic aspects of adapting workrooms with visual display units to the human possibilities [IZF-1978-1] p0125 N79-17562
LABYRINTH
 NT COCHLEA
 NT VESTIBULES
 Cases of probable Aero Otitis interna p0183 A79-33194
 Effect of restricted activity on vestibular function p0312 N79-33802
LABYRINTECTOMY
 Changes in optokinetic, postoptokinetic, and reverse postoptokinetic nystagmus after bilateral labyrinthectomy p0255 A79-46499
LACTATES
 Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
LAG (DELAY)
 U TIME LAG
LAKE CHAMPLAIN BASIN (NY-VT)
 Determination of the secondary production and population dynamics of the zooplankton of the Lake Champlain ecosystem [PB-286094/8] p0084 N79-15572
LAKES
 Distribution of phytoplankton in North Carolina lakes [PB-286387/6] p0084 N79-15573
 Distribution of phytoplankton in Arkansas lakes [PB-292742/4] p0240 N79-26768
LAMPS PROGRAM
 U LIGHT AIRBORNE MULTIPURPOSE SYSTEM
LAND
 NT MARSHLANDS
LANDFORMS
 NT LAKE CHAMPLAIN BASIN (NY-VT)
LANDING
 NT AIRCRAFT LANDING
 NT CRASH LANDING
 NT GLIDE LANDINGS
LANDING AIDS
 NT ALL-WEATHER LANDING SYSTEMS
 NT APPROACH INDICATORS
 NT INSTRUMENT LANDING SYSTEMS
 NT LANDING INSTRUMENTS
 NT MICROWAVE LANDING SYSTEMS
LANDING INSTRUMENTS
 NT APPROACH INDICATORS
 The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing p0063 A79-18210
 An investigation of pictorial and symbolic aircraft displays for landing p0063 A79-18211
LANDING SIMULATION
 Flight management research utilizing an oculometer --- pilot scanning behavior during simulated

approach and landing	p0001 A79-10389	
Manual landings in Category 3 conditions	p0297 A79-52055	
Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators	p0297 A79-52276	
A7 training effectiveness through performance analysis --- carrier landing instruction [AD-A056230]	p0031 N79-11728	
LANDSCAPE		
U TERRAIN		
LANGUAGES		
NT MACHINE ORIENTED LANGUAGES		
NT NATURAL LANGUAGE (COMPUTERS)		
NT PROGRAMMING LANGUAGES		
NT WORDS (LANGUAGE)		
LARGE SCALE INTEGRATION		
Very-large-scale integration - What it means for technical systems and humans	p0181 A79-32640	
LARGE SPACE STRUCTURES		
Developing closed life support systems for large space habitats [AAS PAPER 78-145]	p0099 A79-21260	
LARYNX		
Laryngeal problems in space travel	p0011 A79-12870	
LASER APPLICATIONS		
Laser eye protection for flight personnel	p0135 A79-27555	
Component performance of a 360 deg non-programmed visual display --- laser image flight simulator	p0137 A79-28163	
Moving phase transitions in laser-irradiated biological tissue	p0228 A79-41478	
The retinal resolving power measured by laser interference fringes	p0304 A79-54091	
LASER DAMAGE		
Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength --- corneal damage	p0002 A79-10648	
Laser safety bioeffects research - Histopathology of retinal effects	p0138 A79-28169	
Extrapolation of pulsed light data in scanned displays --- laser radiation eye exposure limits	p0138 A79-28170	
Low level laser light effects --- on vision	p0138 A79-28171	
The development of laser exposure limits	p0181 A79-32320	
Thermal effects during the exposure of ocular fundus tissues to laser radiation	p0234 A79-43057	
Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses	p0266 A79-47330	
Laser eye protection for flight personnel, volume 1 [AD-A057417]	p0034 N79-11747	
Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449]	p0056 N79-13698	
Effects of laser radiation on morphology of peripheral blood and bone marrow under experimental and clinical conditions	p0071 N79-14710	
Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation [AD-A063852]	p0189 N79-22756	
LASER DOPPLER VELOCIMETERS		
Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers	p0210 A79-39509	
Laser Doppler technique for measurement of eye movement	p0233 A79-42450	
Quantitative flow estimation with transcutaneous Doppler ultrasound	p0295 A79-51042	
A directional pulsed-Doppler ultrasonic blood flowmeter	p0050 N79-12693	
LASER OUTPUTS		
Protection against laser beams		p0236 A79-43609
LASERS		
NT PULSED LASERS		
Biological effects of laser irradiation on nerve cells		p0247 N79-27840
Some considerations of hazards in the use of lasers for artistic displays [PB-294513/7]		p0281 N79-30931
Measurements in the laser irradiated eye [AD-A069842]		p0315 N79-33825
LASV		
U F-111 AIRCRAFT		
LATENESS		
On the latency of human visually evoked response to sinusoidal gratings		p0232 A79-42236
LATERAL CONTROL		
Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921]		p0046 A79-14972
An investigation of pictorial and symbolic aircraft displays for landing		p0063 A79-18211
Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions		p0117 N79-17493
LATERALIZATION		
U LATERAL CONTROL		
LAW (JURISPRUDENCE)		
NT LEGAL LIABILITY		
LAWS		
NT SCALING LAWS		
LAYOUTS		
Arm-leg reach and workspace layout		p0033 N79-11739
LDIF		
U LONG DURATION EXPOSURE FACILITY		
LEAD (METAL)		
The distribution of cadmium and other metals in human tissues [PB-285200/2]		p0057 N79-13703
Effects of lead on subcellular components in bacteria		p0142 N79-18565
LEADERSHIP		
Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force		p0290 N79-31945
LEARNING		
NT ASTRONAUT TRAINING		
NT CONDITIONING (LEARNING)		
NT TRANSFER OF TRAINING		
A model for sensorimotor control and learning		p0005 A79-12122
Geotropism of hornet comb construction under persistent acceleration		p0006 A79-12514
Relating performance in basic electricity and electronics and A schools [AD-A060914]		p0085 N79-15584
Vehicle Steering control: A model of learning		p0089 N79-15606
Individual differences in knowledge acquisition from maps [AD-A065040]		p0196 N79-23663
A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983]		p0308 N79-32833
Human memory. A bibliography with abstracts [NTIS/PS-79/0640/7]		p0318 N79-33847
LEARNING CURVES		
The impact of a Learn-Forget-Learn (LFL) curve and learning curves on a system effectiveness model [AD-A061622]		p0124 N79-17550
Application of learning curves of aircraft produced at more than one location to the F-16 lightweight fighter [AD-A065881]		p0196 N79-23664
LEARNING MACHINES		
Multi-PIERRE - A learning robot system		p0066 A79-18425
LEARNING THEORY		
Locus of the effect of specific practice in		

LECTURES

SUBJECT INDEX

continuous visual search	p0129 A79-25099	The European life sciences experiments onboard the first Spacelab mission [ASME PAPER 78-ENAS-24]	p0007 A79-12573
LECTURES		Life sciences experiments in the first Spacelab mission [ASME PAPER 78-ENAS-26]	p0008 A79-12575
Physiological fluid dynamics [VKI-LECTURE-SERIES-32]	p0247 N79-27843	Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34]	p0008 A79-12582
LED (DIODES)		Life sciences experiments mission development test program [ASME PAPER 78-ENAS-36]	p0008 A79-12583
U LIGHT EMITTING DIODES		The European life sciences experiments onboard the first Spacelab mission	p0100 A79-22254
LEG (ANATOMY)		Low tryptophan diet decreases brain serotonin and alters response to apomorphine	p0226 A79-40672
NT KNEE (ANATOMY)		Life sciences and space research XVII; Proceedings of the Open Meeting of the Working Group on Space Biology, May 29-June 10, 1978, and Symposium on Gravitational Physiology, Innsbruck, Austria, June 2, 3, 1978	p0228 A79-41701
Arm-leg reach and workspace layout	p0033 N79-11739	The Canadian Forces Life Quality Improvement Programme	p0026 N79-11693
LEGAL LIABILITY		Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988]	p0081 N79-14782
The use of aviation pathology and aviation medicine as proof of liability and damage	p0100 A79-22704	Translations on USSR science and technology: Biomedical and behavioral sciences, no. 60 [JPRS-73135]	p0175 N79-21745
LEGENDRE CODE		BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft [NASA-TM-58217]	p0261 N79-29784
U COMPUTER PROGRAMMING		LIFE SPAN	
LEGIBILITY		Chirality of compounds essential for the existence of life, and the possibility of its evolution in the universe	p0186 A79-34464
A photometric and legibility assessment of Aerospace Optics, Incorporated Vivisun 20/20 display [AD-A067668]	p0242 N79-26786	Analysis of population mortality kinetics with application to the longevity followup of the Navy's '1,000 aviators'	p0234 A79-43207
LENGTH		Similarity in the number of lifespan heartbeats among non-hibernating homeothermic animals	p0298 A79-52281
The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line	p0228 A79-41422	Evaluation of cardiac risk and subject response to ameliorative efforts	p0031 N79-11723
LENSES		LIFE SUPPORT SYSTEMS	
NT CONTACT LENSES		NT CLOSED ECOLOGICAL SYSTEMS	
NT FRESNEL LENSES		NT EMERGENCY LIFE SUSTAINING SYSTEMS	
A study of the effects of six light conditions on caloric induced nystagmus	p0195 N79-23652	NT PORTABLE LIFE SUPPORT SYSTEMS	
LEPTONS		Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56]	p0003 A79-11224
NT ELECTRONS		Spacelab environmental control/life support system /ECLS/ for life science experiments [IAF PAPER 78-59]	p0003 A79-11225
LESIONS		Microflora analysis of a child with severe combined immune deficiency	p0004 A79-11900
NT PULMONARY LESIONS		The dependence of the CO ₂ removal efficiency of LiOH on humidity and mesh size --- in spacecraft life support systems [ASME PAPER 78-ENAS-5]	p0006 A79-12554
Ruptured arteriovenous anomaly in a former woman astronaut candidate	p0128 A79-24640	Animal life support transporters for Shuttle/Spacelab [ASME PAPER 78-ENAS-10]	p0006 A79-12559
LETHALITY		The Spacelab flight unit environmental control/life support system [ASME PAPER 78-ENAS-14]	p0007 A79-12563
Comparative analysis of causes of animal deaths during chronic exposure to gamma radiation and the aftereffect period	p0107 N79-16516	ECLSS definition for a low cost space construction base --- Environmental Control Life Support Systems [ASME PAPER 78-ENAS-15]	p0007 A79-12564
Reactions of methamidophos with mammalian cholinesterases [AD-A058683/41]	p0016 N79-10718	A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19]	p0007 A79-12568
LEUCINE		Challenges to life support system's future [ASME PAPER 78-ENAS-28]	p0008 A79-12577
Epimerization of L-isoleucine on Na-montmorillonite and its implication to Precambrian chemical fossils	p0051 N79-12698	Extended duration orbiter life support system options [ASME PAPER 78-ENAS-31]	p0008 A79-12580
Isolation of a shock-induced circulating cardiodepressant substance	p0206 A79-37979	Support system considerations for STS biological investigations	
LEUKOCYTES			
NT LYMPHOCYTES			
LEVEL (QUANTITY)			
NT INTERMOLECULAR FORCES			
LIABILITIES			
NT LEGAL LIABILITY			
LIFE (BIOLOGY)			
U LIFE SCIENCES			
LIFE (DURABILITY)			
NT STORAGE STABILITY			
LIFE CYCLE COSTS			
Man-machine reliability - A practical engineering tool	p0047 A79-15400		
Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics	p0064 A79-18217		
LIFE DETECTORS			
The Viking biological investigations - Review and status	p0100 A79-22083		
LIFE SCIENCES			
NT EXTRATERRESTRIAL LIFE			
NT MOLECULAR BIOLOGY			
Spacelab environmental control/life support system /ECLS/ for life science experiments [IAF PAPER 78-59]	p0003 A79-11225		

SUBJECT INDEX

LIMITATIONS

[ASME PAPER 78-ENAS-37]	p0008 A79-12584	
Life support systems for biological specimens in the Shuttle/Spacelab		
[ASME PAPER 78-ENAS-38]	p0009 A79-12585	
Instrumentation for controlling and monitoring environmental control and life support systems		
[ASME PAPER 78-ENAS-40]	p0009 A79-12587	
Extended duration Orbiter life support definition		
[ASME PAPER 78-ENAS-42]	p0009 A79-12588	
Test evaluation of space station ECLSS maintenance concepts --- Environmental Control and Life Support System		
[ASME PAPER 78-ENAS-43]	p0009 A79-12589	
Medical characteristics of the Spacelab life support system		
[DGLR PAPER 78-130]	p0041 A79-14082	
USAF life support equipment costs		
Development of integrated tubing fabric for liquid conditioning undergarments	p0043 A79-14402	
A Canadian approach to high altitude protection --- fighter pilot garmentry and high pressure masks	p0044 A79-14415	
Developing closed life support systems for large space habitats	p0045 A79-14435	
[AAS PAPER 78-145]	p0099 A79-21260	
USAF life support system 412A - 1978 corporate report		
Test and evaluation process for life support systems	p0183 A79-33602	
Systems integration in the development of controlled ecological life support systems	p0184 A79-33643	
[AIAA PAPER 79-1406]	p0187 A79-34842	
Waste treatment options for use in closed systems --- in space colonies		
[AIAA PAPER 79-1409]	p0187 A79-34843	
Generalized environmental control and life support system computer program (G1894), phase 3		
[NASA-CR-151836]	p0019 N79-10741	
Water system microbial check valve development		
[NASA-CR-151843]	p0032 N79-11733	
Prospects of using Japanese quail in biological life support systems		
Advanced life support equipment for nitrogen tetroxide environments	p0109 N79-16531	
Utilization of the wastes of vital activity		
[NASA-TM-75410]	p0169 N79-20432	
Microflora of water reclaimed in sealed compartments		
	p0177 N79-21768	
Microflora of water reclaimed in sealed compartments		
	p0193 N79-23638	
Concept definition for an extended duration orbiter ECLSS		
[NASA-CR-160164]	p0197 N79-23666	
Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems		
	p0246 N79-27834	
Electrochemically regenerable carbon dioxide absorber		
[NASA-CR-152099]	p0262 N79-29794	
LIGAMENTS		
Knee flail design limits: Background, experimentation and design criteria		
[AD-A062384]	p0220 N79-25746	
LIGHT (VISIBLE RADIATION)		
NT LIGHT BEAMS		
NT SUNLIGHT		
Origin of neuron responses of the superior colliculus to light flashes		
	p0233 A79-42294	
Thermally induced retina injury due to high doses of optical radiation		
	p0278 A79-50974	
The physiological significance of light for human beings		
[RAE-LIB-TRANS-1976]	p0077 N79-14757	
A study of the effects of six light conditions on caloric induced nystagmus		
	p0195 N79-23652	
LIGHT ABSORPTION		
U ELECTROMAGNETIC ABSORPTION		
LIGHT ADAPTATION		
Primate cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram		
	p0104 A79-24065	
The influence of rapid prism adaptation upon fixation disparity		
	p0231 A79-42230	
Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons		
	p0232 A79-42234	
Effect of adaptation level on certain visual functions in man		
	p0296 A79-51328	
Restoration of color perception after deadapting flashes		
	p0193 N79-23640	
Influence of light adaptation on dark adaptation time for pattern recognition tasks [FB-31]		
	p0316 N79-33835	
LIGHT AIRBORNE MULTIPURPOSE SYSTEM		
Human factor engineering test and evaluation of the US Navy LAMPS helicopter system		
	p0151 N79-19632	
LIGHT BEAMS		
Moving phase transitions in laser-irradiated biological tissue		
	p0228 A79-41478	
Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449]		
	p0056 N79-13698	
LIGHT DURATION		
U PULSE DURATION		
LIGHT EMISSION		
NT CHEMILUMINESCENCE		
NT FLUORESCENCE		
LIGHT EMITTING DIODES		
Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix		
	p0063 A79-18214	
No harmful effects through infrared light emitting diodes		
	p0184 A79-33650	
LIGHT INTENSITY		
U LUMINOUS INTENSITY		
LIGHT MODULATION		
Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image		
	p0100 A79-22771	
LIGHT PROBES		
U LIGHT BEAMS		
LIGHT SCATTERING		
Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria --- Rayleigh-Gans-Debye		
	p0233 A79-42448	
LIGHT TRANSMISSION		
NT LIGHT SCATTERING		
Measurements in the laser irradiated eye [AD-A069842]		
	p0315 N79-33825	
LIGHTING		
U ILLUMINATING		
LIGHTING EQUIPMENT		
Light and color on a manned spacecraft		
	p0059 N79-13996	
A decision model applied to alcohol effects on driver signal light behavior		
	p0092 N79-15630	
LIMBS (ANATOMY)		
NT ARM (ANATOMY)		
NT FOREARM		
NT HAND (ANATOMY)		
NT KNEE (ANATOMY)		
NT LEG (ANATOMY)		
Limb blood flow - Rest and heavy exercise in sitting and supine positions in man		
	p0235 A79-43208	
Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats		
	p0268 A79-47856	
Studies of limb-dislodging forces acting on an ejection seat occupant [AD-A064882]		
	p0196 N79-23658	
Prosthesis coupling [NASA-CASE-RSC-11069-1]		
	p0240 N79-26772	
Correlation of mechanism of extremity injury and aerodynamic factors in ejections from F-4 aircraft		
	p0284 N79-31904	
LIMITATIONS		
U CONSTRAINTS		

LINE SHAPE

The relationship between the apparent vertical and the vertical horopter --- visual perception of luminous line
p0225 A79-40186

The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line
p0228 A79-41422

LINEAR EQUATIONS

The human operator in the control system: Linear models --- German book
p0132 A79-26356

LINEAR PREDICTION

Linear modelling of attentional resource allocation
Modelling the human operator of slowly responding systems using linear models
p0091 N79-15626
p0117 N79-17492

LINEAR SYSTEMS

Detection of coloured stimuli by independent linear systems
p0231 A79-42229

LINEARITY

Estimation of nerve-bundle conduction
p0154 N79-19672

LINEARIZATION

Linearization and sensitivity analysis of model for human eye movements
p0102 A79-23783

LING-TEMCO-VOUGHT AIRCRAFT

NT A-7 AIRCRAFT

LINGUISTICS

NT WORDS (LANGUAGE)

LIPID METABOLISM

Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation
p0067 A79-18965

Energetic aspects of adaptation --- Russian book on metabolic responses to stress
p0167 A79-31906

Membranous evolution in the primitive cell
p0206 A79-37977

COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat
p0023 N79-11675

Changes in amount and composition of phospholipids in rat skeletal muscle microsomal fraction under the influence of a flight aboard the Kosmos-690 biosatellite
p0108 N79-16519

Sterols bound with blood plasma proteins and erythrocyte membranes during hypoxia
p0193 N79-23636

Effects on lipid metabolism in man of some factors that simulate space flight conditions
p0311 N79-33794

LIPIDS

NT LIPOPROTEINS

Temperature-dependent morphological changes in membranes of *Bacillus stearothermophilus*
p0005 A79-12475

A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem
p0132 A79-26373

Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria'
p0232 A79-42274

The effects of ozone on human erythrocytes and phospholipid vesicles
p0049 N79-12687

Blood lipid changes in hypoxic rats
p0074 N79-14731

Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes
p0147 N79-19591

LIPOPROTEINS

Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood
p0311 N79-33797

LIQUID COOLING

Development of integrated tubing fabric for liquid conditioning undergarments
p0044 A79-14415

LIQUID CRYSTALS

Liquid crystal developments for medicine

p0175 N79-21746

LIQUID DROPS

U DROPS (LIQUIDS)

LIQUID MERCURY

U MERCURY (METAL)

LIQUID METALS

NT MERCURY (METAL)

LIQUID WASTES

NT URINE

NT WASTE WATER

LIQUID-GAS MIXTURES

NT AEROSOLS

NT FOG

LIQUIDS

NT MERCURY (METAL)

LISTS

Publications of the planetary biology program for 1977: A special bibliography
[NASA-TM-80338]

p0179 N79-21777

LITERATURE

NT BIOGRAPHY

NT DOCUMENTATION

LITHIUM COMPOUNDS

NT LITHIUM HYDROXIDES

LITHIUM HYDROXIDES

The dependence of the CO₂ removal efficiency of LiOH on humidity and mesh size --- in spacecraft life support systems
[ASME PAPER 78-ENAS-5]

p0006 A79-12554

LIVER

The effect of normobaric hyperoxia on brain and liver tissue respiration in albino rats with different resistances to hypoxia

p0296 A79-51113

Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite

p0014 N79-10702

Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite

p0014 N79-10703

COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat

p0023 N79-11675

Diffraction-based characterization of biological tissue with ultrasound --- acoustic scattering from liver tissue

p0054 N79-13683

State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field

p0075 N79-14742

Effect of different doses of centimeter-band electromagnetic oscillations of bioluminescence of central nervous system and liver tissues

p0172 N79-20738

Cu-content of the liver of young mice in relation to a defect in the Cu-metabolism [IRI-133-77-02]

p0239 N79-26764

LOAD DISTRIBUTION (FORCES)

Influences of joystick spring resistance on the execution of simple and complex positioning movements

p0119 N79-17517

LOAD FACTORS

U LOADS (FORCES)

LOADING FORCES

U LOADS (FORCES)

LOADING OPERATIONS

Microbial load monitor [NASA-CR-160274]

p0243 N79-27815

LOADING WAVES

U LOADS (FORCES)

LOADS (FORCES)

NT AXIAL COMPRESSION LOADS

NT DYNAMIC LOADS

A study of the effect of forcing function characteristics on human operator dynamics in manual control

p0086 N79-15590

LOBES

Distribution of regional volumes and ventilation in excised canine lobes

p0236 A79-43703

LOCKHEED AIRCRAFT

NT C-141 AIRCRAFT

NT F-104 AIRCRAFT

LOCOMOTION	
NT ASTRONAUT LOCOMOTION	
NT WALKING	
Adaptive locomotion of a multilegged robot over rough terrain	p0163 A79-30217
Process of search control of coordinated movement in man	p0166 A79-30701
Selecting the program of motions for a biped walking machine	p0166 A79-31490
LOGIC DESIGN	
Control logic design criteria for multifunction switching devices --- in aircraft	p0064 A79-18223
LONG DURATION EXPOSURE FACILITY	
The Biostack experiment in the U.S. long exposure duration test program	p0227 A79-41230
LONG TERM EFFECTS	
Medical control in prolonged space flights [IAF PAPER 78-63]	p0003 A79-11226
Challenges to life support system's future [ASME PAPER 78-ENAS-28]	p0008 A79-12577
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration	p0229 A79-41704
Changes in blood sugar content of dogs exposed to chronic gamma radiation for six years	p0014 N79-10706
Effects of long-term and chronic radiation on hemopoiesis	p0016 N79-10719
Dynamic medical monitoring of flight crews in the course of long-term flights	p0072 N79-14719
State of blood clotting during prolonged hypokinesia	p0073 N79-14729
Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826]	p0107 N79-16514
Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite	p0108 N79-16517
The facilitating effects of uncertainty in long-term manual control	p0115 N79-17485
Problems of human adaption to spaceflight	p0157 N79-19985
Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antiorthostatic hypokinesia	p0193 N79-23635
Effect of combination of hypoxia and hypercapnia on survival of Japanese quail	p0194 N79-23641
Effects of different values of urine pH during long-term storage on microflora composition	p0194 N79-23643
Morphological distinctions of the rat thyroid and parathyroid following long-term space flights	p0246 N79-27835
LOOP ANTENNAS	
Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna	p0136 A79-27959
LOUDNESS	
Overall loudness of steady sounds according to theory and experiment [NASA-RP-1001]	N79-25753
The loudness of tinnitus	p0246 N79-27837
LOW ALTITUDE	
The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight	p0038 A79-13204
Responses of high altitude natives to a standard cold test at sea level	p0164 A79-30658
The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204]	p0055 N79-13693
LOW FREQUENCIES	
The influence of low frequency vibration on pilot performance /as measured in a fixed base	
simulator/	
Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling)	p0299 A79-52326
LOW GRAVITY	
U REDUCED GRAVITY	
LOW PRESSURE	
Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body	p0073 N79-14725
LOW TEMPERATURE	
Effects of low temperature on in vivo and in vitro protein synthesis in Escherichia coli and Pseudomonas fluorescens	p0131 A79-26141
LOW TEMPERATURE ENVIRONMENTS	
The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus	p0005 A79-12512
Skin temperature changes in paradoxical sleep in man in the cold	p0201 A79-37706
LOW VISIBILITY	
The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing	p0063 A79-18210
LOWER ATMOSPHERE	
NT BIOSPHERE	
LOWER BODY NEGATIVE PRESSURE (LBNP)	
U ACCELERATION STRESSES (PHYSIOLOGY)	
LSI	
U LARGE SCALE INTEGRATION	
LUMBAR REGION	
The effect of thermal stimulation of the skin on activity of lateral crescent interneurons of lumbar segments	p0208 A79-38147
LUMBERING AREAS	
U FORESTS	
LUMINANCE	
The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line	p0228 A79-41422
On the latency of human visually evoked response to sinusoidal gratings	p0232 A79-42236
Enhancement of luminance flicker by color-opponent mechanisms	p0252 A79-44582
Spatial summation in human vision - Simple reaction time measurements	p0265 A79-47115
Upper-velocity threshold for detection of movement	p0299 A79-52541
Contrast sensitivity of the human visual system at one luminance level while adapted to a stimulus at another luminance level [AD-A064370]	p0190 N79-22759
LUMINESCENCE	
NT CHEMILUMINESCENCE	
NT FLUORESCENCE	
LUMINESCENT INTENSITY	
U LUMINOUS INTENSITY	
LUMINOUS FLUX DENSITY	
U LUMINOUS INTENSITY	
LUMINOUS INTENSITY	
NT LUMINANCE	
Human factors design criteria for transilluminated displays	p0036 A79-13187
LUNAR SCATTERING	
U DIFFUSE RADIATION	
LUNAR SOIL	
The origin of life on earth - Recent studies	p0134 A79-27335
LUNG MORPHOLOGY	
Growth of pulmonary circulation in normal pig - Structural analysis and cardiopulmonary function	p0067 A79-18961
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression	p0185 A79-33806

- Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269
- LUNGS**
- The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs [IAP PAPER 78-51] p0002 A79-11221
 - Monitoring the state of the human airways by analysis of respiratory sound [IAP PAPER 78-66] p0003 A79-11227
 - Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702
 - Distribution of regional volumes and ventilation in excised canine lobes p0236 A79-43703
 - A revised model of gas transport in human lungs p0253 A79-45768
 - Pulmonary functional tolerance to ionizing radiation - An experimental study p0256 A79-46601
 - Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology p0256 A79-46603
 - Absence of effects of hypoxia on small airway function in humans p0268 A79-47851
 - Cardiopulmonary readjustments in passive tilt p0277 A79-50901
 - Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia p0277 A79-50905
 - The lung as a filter for microbubbles p0277 A79-50906
 - Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
 - The physiological role of surface-active substances in the lung p0296 A79-51117
 - The role of lesser circulation hemodynamic changes in pulmonary gas exchange p0300 A79-53066
 - Evidence for increased intrathoracic fluid volume in man at high altitude p0305 A79-54266
 - Lung mechanics: Dynamic response, acoustic generation, and flow limitation p0017 N79-10727
 - Long term pulmonary function patterns in the aviator: The thousand Aviator study p0028 N79-11708
 - Mechanics of mammalian lung p0247 N79-27844
 - Respiration p0247 N79-27845
- LYMPH**
- NT LYMPHOCYTES
 - The lymph nodes and lymph vessels of the white rat [BLR-RTS-11309] p0141 N79-18554
 - Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation p0312 N79-33804
 - LYMPHOCYTES
 - Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite p0021 N79-11662
 - A theoretical study of membrane diffusion and lymphocyte patching p0142 N79-18563
- LYOPHILIS**
- U COLLOIDS
- M**
- MACHINE LEARNING**
- U LEARNING MACHINES
- MACHINE ORIENTED LANGUAGES**
- Attempt to describe a class of man-machine dialogue systems based on a natural language p0251 A79-44057
- MACHINE RECOGNITION**
- U ARTIFICIAL INTELLIGENCE
- MACROPHAGES**
- Preparation of guinea pig macrophage for
- electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814
- MACULAR VISION**
- U VISION
- MAGNESIUM**
- Effects of magnesium, calcium, and serum on reversion of stable L-forms --- of soil bacterium p0131 A79-26140
- MAGNESIUM COMPOUNDS**
- NT CHLOROPHYLLS
- MAGNETIC ABSORPTION**
- U ELECTROMAGNETIC ABSORPTION
- MAGNETIC COILS**
- The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil p0210 A79-39974
- MAGNETIC EFFECTS**
- Biomagnetism and artificial magnetic stimulation of living structures [IAP PAPER 78-52] p0002 A79-11222
- MAGNETIC FIELDS**
- NT BIOMAGNETISM
 - The theory of the magnetocardiogram p0304 A79-53533
 - Quantitative review of human susceptibility to magnetic fields [UCID-17773] p0026 N79-11691
 - Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
 - Biological effects of a magnetic field p0172 N79-20734
 - Magnetic field effect on radial processes in biological membranes p0172 N79-20737
 - Effect of infra-low-frequency magnetic fields on cell division p0173 N79-20739
 - Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- MAGNETIC INDUCTION**
- Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- MAGNETIC PROPERTIES**
- NT BIOMAGNETISM
 - NT MAGNETIC EFFECTS
 - NT MAGNETIC INDUCTION
 - MAGNETIC RESONANCE
 - NT ELECTRON PARAMAGNETIC RESONANCE
 - MAGNETOCARDIOGRAPHY
 - Magnetocardiography - An overview p0274 A79-50107
 - Biomagnetic instrumentation and measurement p0295 A79-51043
 - Clinical magnetocardiography p0295 A79-51044
 - Non-invasive information on the P-R segment of the cardiac cycle - An assessment of the clinical potential of the electric and magnetic methods p0295 A79-51045
 - Theoretical foundations of cardiovascular processes --- Book p0304 A79-53531
 - The theory of the magnetocardiogram p0304 A79-53533
- MAGNETOMETERS**
- Biomagnetic instrumentation and measurement p0295 A79-51043
- MAGNIFICATION**
- The holographic Pancake Window --- magnifier for flight simulation display p0138 A79-28172
- MAGNIFIERS**
- U MAGNIFICATION
- MAGNITUDE**
- Magnitude estimation as a hearing aid selection procedure p0246 N79-27838
- MAIN SEQUENCE STARS**
- Habitable zones about main sequence stars p0136 A79-27930

M A I N T A I N A B I L I T Y

Test evaluation of space station ECLSS maintenance concepts --- Environmental Control and Life Support System
[ASME PAPER 78-ENAS-43] p0009 A79-12589

M A I N T E N A N C E

NT AIRCRAFT MAINTENANCE
NT SPACE MAINTENANCE

M A I L S

Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness
p0229 A79-41712

A comparison of the physiological responses in young men and women to heat and cold stress
[AD-A061024] p0155 N79-19679

Masculinity, femininity, androgyny. What really works at work
[AD-A061177] p0156 N79-19683

M A M M A L S

NT CHIMPANZEES

NT DOGS

NT GOATS

NT HUMAN BEINGS

NT MICE

NT MONKEYS

NT PRIMATES

NT RABBITS

NT RATS

NT WHALES

Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro
p0134 A79-27239

The visual cortex of normal and deprived monkeys
p0296 A79-51174

Reactions of methamidophos with mammalian cholinesterases
[AD-A058683/4] p0051 N79-12698

Principal results of experiment with mammals onboard the Kosmos-782 biosatellite
p0073 N79-14726

Mechanics of mammalian lung
p0247 N79-27844

M A M M A R Y G L A N D S

Autoradiographic enhancement of mammograms
p0227 A79-40773

M A N

U HUMAN BEINGS

M A N E N V I R O N M E N T I N T E R A C T I O N S

Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57
[JPRS-72808] p0121 N79-17526

Environment monitoring in the USSR and hygienic practice --- anthropogenic effects
p0121 N79-17528

Shalit Perceptual Organization and Reduction Questionnaire (SPORQ) - Report 2:
Characteristics and reliability
[FOA-C-55031-R6] p0309 N79-32836

M A N M A C H I N E S Y S T E M S

Evolution of the man-machine interface in surveillance radar systems
p0001 A79-10322

False hypothesis and the pilot --- aircraft accidents due to decision making errors
[SAE PAPER 780528] p0001 A79-10399

Piloted aircraft simulation - Advantages, disadvantages, and practical problems
[SAE PAPER 780548] p0001 A79-10407

Modeling and analysis using SAINT - A combined discrete/continuous network simulation language --- Systems Analysis of Integrated Network of Tasks for RPV
p0004 A79-11480

Human factors design criteria for transilluminated displays
p0036 A79-13187

Seating, console and workplace design - Seated operator reach profiles
p0036 A79-13188

Seating, console, and workplace design - Integration of literature and accommodation model
p0036 A79-13189

Contrast enhancement using local area brightness and gain control --- of airborne CRT display
p0037 A79-13199

Synthetic aperture radar operator tactical target acquisition research
p0037 A79-13202

T a r g e t a c q u i s i t i o n i n r e a l i s t i c t e r r a i n

p0037 A79-13203

Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit
p0038 A79-13205

The event related cortical potential as an index of task workload
p0038 A79-13208

Task taxonomy - Two ignored issues --- criteria for task evaluation with respect to empirical data
p0039 A79-13212

Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits
p0039 A79-13213

Task functional demands as factors in dual-task performance
p0039 A79-13214

NASA flight management research
p0040 A79-13218

Coordinated crew performance in commercial aircraft operations
p0040 A79-13219

The assessment of rotary wing aviator precision performance during extended helicopter flights
p0040 A79-13221

Development of automated performance measures for introductory air combat maneuvers
p0040 A79-13223

Experimental designs for investigating complex human operator/machine systems
p0040 A79-13225

Communications management by the remote system - An adaptive approach --- modeling of RPV autopilot/operator systems
p0041 A79-13226

Experimental and psychological investigations in aviation and astronautics --- Russian book
p0041 A79-13998

Anthropology in Spacelab - Control and display system in Spacelab
[DGLR PAPER 78-151] p0042 A79-14096

Increasing pilot's performance capacity during flight through use of a control element serving as information carrier
[DGLR PAPER 78-152] p0042 A79-14097

Human factors considerations in establishing aircraft collision avoidance system alert thresholds
p0045 A79-14438

Adaptive supervisory control of remote manipulation
p0046 A79-14987

Light weight solid state helmet symbol display and position system
p0046 A79-15177

Computer-graphic design for human performance
[AD-A055132] p0046 A79-15399

Man-machine reliability - A practical engineering tool
p0047 A79-15400

The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft
p0061 A79-17683

Human Factors Society, Annual Meeting, 22nd, Detroit, Mich., October 16-19, 1978, Proceedings
p0062 A79-18201

System operability - Concept and measurement in test and evaluation --- man system compatibility indices in F-18 aircraft example
p0062 A79-18204

Perception of graphic displays of space
p0062 A79-18205

Pilot performance during flight simulation with peripherally presented visual signals
p0063 A79-18213

Man/terminal interaction evaluation of computer operating system command and control service concepts --- in Spacelab
p0064 A79-18224

On the relationship between pilot rating and pilot dynamics. I - An experimental approach
p0066 A79-18474

On the relationship between pilot rating and pilot dynamics. II - An analytical approach
p0066 A79-18475

Human engineering study of information processing applicable to helmet-mounted displays
p0068 A79-18994

- Collision avoidance response stereotypes in pilots and nonpilots p0068 A79-18995
- Line criteria in target acquisition with television --- visibility of target image on TV screen p0068 A79-18997
- Speed and load stress as determinants of performance in a time sharing task p0068 A79-18999
- Visual target acquisition and ocular scanning performance p0069 A79-19000
- The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156
- Engineering-psychological study of information imaging systems --- manual control of spaceship docking p0099 A79-21404
- The next decade - Development, training, supervision p0102 A79-23584
- Digital man-machine control systems - The effects of preview lag p0131 A79-26149
- The human operator in the control system: Linear models --- German book p0132 A79-26356
- Nonparametric model for the detection of signals observed by a human operator on a CRT screen on a noise background --- cathode-ray tube p0159 A79-28565
- An algorithm to ascertain critical regions of human tracking ability p0163 A79-30218
- A model of human decisionmaking in fault diagnosis tasks that include feedback and redundancy p0163 A79-30222
- A comparison of control modes for time-delayed remote manipulation p0163 A79-30223
- Evaluation of models describing human operator control of slowly responding complex systems --- Thesis p0167 A79-31494
- Pilot preflight briefing utilizing an interactive computer generated Voice Response System p0167 A79-31887
- Application of computer animation for dynamic display in complex energy systems --- for human operator performance improvement p0186 A79-34172
- Advanced teleoperators --- remote manipulation system p0187 A79-34982
- Robotic vision --- process control applications p0187 A79-34984
- Construction in space - Toward a fresh definition of the man/machine relation p0187 A79-34985
- Computerized clinical electroencephalography in perspective p0226 A79-40648
- The effect of increased monitoring load on vigilance performance using a simulated radar display p0236 A79-43674
- Attempt to describe a class of man-machine dialogue systems based on a natural language p0251 A79-44057
- A structural model of the adaptive human pilot [ATAA 79-1784] p0252 A79-45411
- Ejection problems and injuries - Their causes, effects and treatments, and suggestions for preventive measures p0267 A79-47338
- Computer augmented manual control of remote manipulators p0269 A79-48019
- An operator-aiding manipulator control system p0269 A79-48020
- Helicopter commands at the touch of a hand [AHS 79-13] p0270 A79-49066
- Computer aided control of a mechanical arm p0275 A79-50334
- Man and automation --- for human-automatic pilot interfaces p0275 A79-50372
- Man and machine design for space flight p0300 A79-52696
- Thoughts about man-machine interrelations in space flights applied to Spacelab missions [IAF PAPER 79-95] p0302 A79-53295
- Development of techniques to enhance man/machine communication [NASA-CR-157886] p0032 N79-11730
- Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024] p0032 N79-11734
- Statistical considerations in man-machine designs p0033 N79-11743
- A critically annotated bibliography of the literature on human factors in computer systems [AD-A058081] p0052 N79-12707
- The 14th Annual Conference on Manual Control --- digital simulation of human operator dynamics [NASA-CP-2060] p0086 N79-15588
- Modeling the human as a controller in a multitask environment p0087 N79-15595
- Closed loop models for analyzing the effects of simulator characteristics --- digital simulation of human operators p0087 N79-15598
- Prospects of a mathematical theory of human behavior in complex man-machine systems tasks --- time sharing computer analogy of automobile driving p0088 N79-15599
- Human operator identification model and related computer programs [NASA-CR-152237] p0112 N79-16551
- Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552
- Optimisation of pilot capability and avionic system design [AGARD-AR-118] p0113 N79-16560
- Optimisation of pilot capability and avionic system design, introduction p0113 N79-16561
- Systems design p0114 N79-16563
- The Helicopter p0114 N79-16568
- Proceedings, 13th Annual Conference on Manual Control [NASA-CR-158107] p0114 N79-17475
- The effects of deviate internal representations in the optimal model of the human operator p0114 N79-17477
- A dual-loop model of the human controller p0115 N79-17480
- An approach to the multi-axis problem in manual control --- optimal pilot model p0115 N79-17482
- The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator [FS-GMR-2394] p0115 N79-17484
- A control theoretic model of driver steering behavior p0116 N79-17491
- Modelling the human operator of slowly responding systems using linear models p0117 N79-17492
- A model of the human supervisor p0117 N79-17495
- Prosthetic EMG control enhancement through the application of man-machine principles p0117 N79-17505
- Prediction of pilot-aircraft stability boundaries and performance contours p0118 N79-17507
- Speech as a pilot input medium p0119 N79-17519
- The impact of a Learn-Forget-Learn (LPI) curve and learning curves on a system effectiveness model [AD-A061622] p0124 N79-17550
- Man-machine analysis of translation and work tasks of Skylab films [NASA-CR-151879] p0146 N79-18592
- Human factor engineering test and evaluation of the US Navy LAMPS helicopter system p0151 N79-19632
- Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772

- MM/1, a man - machine interface: A contribution towards a standard**
 [NPL-CSU-2/78] p0197 N79-23669
- A two level model of human steering behavior in a motor vehicle**
 [PB-27] p0197 N79-24657
- Improvements in the man-machine interface for data acquisition, display and control**
 p0224 N79-25983
- Analytical methods for biotechnological design of man machine systems: Work on system ergonomy**
 [PB-28] p0242 N79-26787
- The systemic principles of building a man-machine control staff --- functional analysis**
 p0249 N79-27861
- Combined discrete network-continuous control modeling of man-machine systems**
 p0260 N79-28879
- Human processing of information and the computerized mode of presentation: Ergonomic parameters**
 [FOA-C-56018-H9] p0263 N79-29797
- Multipurpose digital switching and flight control workload**
 [AD-A069606] p0281 N79-30934
- A decision, monitoring and control model of the human operator applied to an RPV control problem**
 [AD-A069880] p0282 N79-30939
- Development of human performance models for man-machine system simulation**
 [AD-A069879] p0282 N79-30940
- Adaptive estimation of information values in continuous decision making and control of advanced aircraft**
 [AD-A069741] p0282 N79-30941
- Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors**
 [AD-A069730] p0282 N79-30942
- Medical and operational factors of accidents in advanced fighter aircraft**
 p0290 N79-31944
- Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force**
 p0290 N79-31945
- The information in aircraft accidents investigation**
 p0291 N79-31947
- Human performance in time-shared verbal and tracking tasks**
 [AD-A070275] p0308 N79-32831
- Combined discrete network: Continuous control modeling of man-machine systems**
 [AD-A071574] p0310 N79-32842
- Models of human operators in vision dependent tasks**
 [NASA-CP-2103] p0317 N79-33838
- A survey of Applied Psychological Services' models of the human operator**
 p0317 N79-33839
- Visual performance modeling in the human operator simulator**
 p0317 N79-33840
- A brief overview of the theory and application of the optimal control model of the human operator**
 p0317 N79-33841
- SAINT: A combined simulation language for modeling man-machine systems**
 p0317 N79-33842
- Analysis of visual estimation of system state from arbitrary displays**
 p0317 N79-33843
- The role of cognitive switching in head-up displays --- to determine pilot ability to accurately extract information from either of two sources**
 [NASA-CR-3137] p0318 N79-33851
- MANAGEMENT**
- NT INFORMATION MANAGEMENT**
- NT PERSONNEL MANAGEMENT**
- NT PROJECT MANAGEMENT**
- NT RESEARCH MANAGEMENT**
- NT SAFETY MANAGEMENT**
- NT SYSTEMS MANAGEMENT**
- MANAGEMENT METHODS**
- NT DELPHI METHOD (FORECASTING)**
- MANAGEMENT PLANNING**
- Translations on USSR science and technology:**
 Biomedical and behavioral sciences, no. 52 --- with emphasis on research management
 [JPRS-72604] p0078 N79-14760
- A complex system for planning scientific medical research**
 p0078 N79-14761
- Problem-oriented program approach to planning and management of medicine**
 p0078 N79-14762
- The conception of the systems analytic approach to planning and organization of medical scientific research**
 p0078 N79-14764
- Current status and prospects of continued refinement of planning and coordination of scientific medical research**
 p0078 N79-14765
- Use of the systems analytic approach for organization and coordination of complex biomedical research**
 p0079 N79-14767
- MANEUVERABILITY**
- The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator**
 [RS-GMR-2394] p0115 N79-17484
- MANEUVERS**
- NT AIRCRAFT MANEUVERS**
- Car driving as a cybernetic task**
 [IZF-1979-6] p0309 N79-32838
- HANIPULATION**
- U MANIPULATORS**
- MANIPULATORS**
- Adaptive control of a robotic manipulator**
 p0046 A79-15001
- Control of robot manipulators from the modeling of their dynamics --- French thesis**
 p0101 A79-23427
- Object-handling system for manual industry**
 p0101 A79-23464
- Control systems for robots and manipulators --- Russian book**
 p0134 A79-27303
- A comparison of control modes for time-delayed remote manipulation**
 p0163 A79-30223
- Advanced teleoperators --- remote manipulation system**
 p0187 A79-34982
- The mechanical properties of manipulation systems**
 p0231 A79-42017
- Computer augmented manual control of remote manipulators**
 p0269 A79-48019
- An operator-aiding manipulator control system**
 p0269 A79-48020
- Computer aided control of a mechanical arm**
 p0275 A79-50334
- Goal-directed mechanics of controlled manipulators --- Russian book**
 p0275 A79-50447
- Event-driven displays for manipulator control**
 p0089 N79-15610
- Manned simulations of the SRMS in SIMFAC**
 p0089 N79-15611
- The proto-type wrist joint assembly TACPAW (Triple Axis Common Pivot Arm Wrist), phase 2**
 [NASA-CR-150885] p0093 N79-15635
- Simple models for the shuttle remote manipulator system**
 [NASA-CR-151881] p0113 N79-16554
- Advanced industrial robot control systems**
 [PB-287273/7] p0113 N79-16558
- Multi-axis hand controller for the shuttle remote manipulator system**
 p0117 N79-17503
- The development of a six degree-of-constraint robot performance evaluation test**
 p0117 N79-17504
- Two measures of performance in a peg-in-hole manipulation task with force feedback**
 p0118 N79-17506
- Terminal guidance sensor system**
 [NASA-CASE-NPO-14521-1] p0174 N79-20746
- Compact artificial hand**
 [NASA-CASE-NPO-13906-1] p0214 N79-24652
- Proximity-vision system for protoflight manipulator arm**
 [NASA-CR-158652] p0197 N79-24658
- Study of modeling and evaluation of remote manipulation tasks with force feedback**
 [NASA-CR-158721] p0242 N79-26785

MANNED ORBITAL LABORATORIES

- The Meduza experiment: An orbital complex ten weeks in flight
[NASA-TM-75394] p0169 N79-20714
- MANNED ORBITAL SPACE STATIONS**
- ORBITAL SPACE STATIONS
- MANNED SPACE FLIGHT**
- Medical control in prolonged space flights
[IAF PAPER 78-63] p0003 A79-11226
- Space medicine - A prognosis for future research
[IAF PAPER 78-ST-17] p0003 A79-11364
- Space biology and medicine
Space biology and aerospace medicine
Space biology and aerospace medicine
Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science
Closed ecology in space from a bioengineering perspective
Aerospace highlights and potential medical applications --- in manned space flight
Man and machine design for space flight
Thoughts about man-machine interrelations in space flights applied to Spacelab missions
Prospects of using Japanese quail in biological life support systems
Specialized physiological studies in support of manned space flight
Problems of human adaption to spaceflight
Space biology and aerospace medicine, no. 2, 1979
Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors
p0192 N79-23630

MANNED SPACECRAFT

- NT MANNED ORBITAL LABORATORIES
- NT ORBITAL SPACE STATIONS
- NT ORBITAL WORKSHOPS
- NT SALYUT SPACE STATION
- NT SKYLAB 3
- NT SOYUZ SPACECRAFT
- NT SPACE SHUTTLES
- NT SPACE STATIONS
- Life sciences experiments in the first Spacelab mission
[ASME PAPER 78-ENAS-26] p0008 A79-12575
- Engineering-psychological study of information imaging systems --- manual control of spaceship docking
Light and color on a manned spacecraft
p0059 N79-13996

MANOMETERS

- Analyses for noninvasive monitoring of arterial blood pressure by I/ phono cuff-sphygmomanometry, for discrete measurements and II/ arterial ultrasonic imaging, for continuous measurements
p0294 A79-51037

MANPOWER

- NT SCIENTISTS
- Isometric strength testing in selecting workers for strenuous jobs
p0262 N79-29790

MANUAL CONTROL

- Depth perception and manual control
Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits
Task functional demands as factors in dual-task performance
Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller
[DGLR PAPER 78-149] p0042 A79-14094
- Application of control theory to the investigation of roll motion effects on pilot control behavior
[AD-A054921] p0046 A79-14972

- Digital man-machine control systems - The effects of preview lag
p0131 A79-26149
- The human operator in the control system: Linear models --- German book
p0132 A79-26356
- Adaptive estimation schemes for minimizing uncertainty in manual control tasks
p0269 A79-48013
- Human operators in adversary tracking encounters
p0269 A79-48015
- Computer augmented manual control of remote manipulators
p0269 A79-48019
- An operator-aiding manipulator control system
p0269 A79-48020
- Helicopter commands at the touch of a hand
[AHS 79-13] p0270 A79-49066
- Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance
p0299 A79-52327
- Development of recommendations to improve controls operability
[PB-284433/0] p0053 N79-12714
- A formal model of the adaptive and discrete control behaviors of human operators
[AD-A059039] p0059 N79-13717
- The 14th Annual Conference on Manual Control --- digital simulation of human operator dynamics
[NASA-CP-2060] p0086 N79-15588
- A study of the effect of forcing function characteristics on human operator dynamics in manual control
p0086 N79-15590
- An extension of the quickened display for manual control
p0086 N79-15591
- Effects of uncertainty on manual tracking performance --- visual tasks
p0086 N79-15592
- Modeling the human as a controller in a multitask environment
p0087 N79-15595
- A comparison of motor submodels in the optimal control model
p0087 N79-15597
- Flight experience with manually controlled unconventional aircraft motions
p0088 N79-15602
- The determination of the operating range of a twin-grip control yoke through biomechanical means
p0089 N79-15609
- Evaluation of display and control concepts for a terminal configured vehicle in final approach in a windshear environment
p0090 N79-15616
- Proceedings, 13th Annual Conference on Manual Control
[NASA-CP-158107] p0114 N79-17475
- A dual-loop model of the human controller
p0115 N79-17480
- An approach to the multi-axis problem in manual control --- optimal pilot model
p0115 N79-17482
- Error rate information in attention allocation pilot models
p0115 N79-17483
- The facilitating effects of uncertainty in long-term manual control
p0115 N79-17485
- Multi-attribute subjective evaluations of manual tracking tasks vs. objective performance of the human operator
p0116 N79-17486
- The effects of participatory mode and task workload on the detection of dynamic system failures
p0116 N79-17487
- A control theoretic model of driver steering behavior
p0116 N79-17491
- Modelling the human operator of slowly responding systems using linear models
p0117 N79-17492
- Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions
p0117 N79-17493

- A model of the human supervisor p0117 N79-17495
- Manual control of yaw motion with combined visual and vestibular cues p0119 N79-17513
- Motion cue effects on human pilot dynamics in manual control p0119 N79-17514
- Study of the use of a nonlinear, rate limited, filter on pilot control signals p0119 N79-17515
- Influences of joystick spring resistance on the execution of simple and complex positioning movements p0119 N79-17517
- Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations [BMVG-PBWT-78-11] p0146 N79-18593
- Steering behaviour and manual control actions. Part 1: An evaluation of the literature and a research plan [IZF-1978-3] p0146 N79-18594
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- A theoretical and experimental analysis of the outside world perception process [NLR-MP-78020-U] p0309 N79-32835
- MANUALS**
- NT USER MANUALS (COMPUTER PROGRAMS)
- MANUFACTURING**
- NT SPACE MANUFACTURING
- MAPPING**
- NT THERMAL MAPPING
- MAPS**
- The application of remote sensors to a model for fish mapping [INPE-1379-PE/176] p0071 N79-14712
- Individual differences in knowledge acquisition from maps [AD-A065040] p0196 N79-23663
- MARIJUANA**
- Effect of alcohol and marijuana on eye movements p0101 N79-23469
- MARINE BIOLOGY**
- Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium p0204 N79-37964
- Determination of bound water in biological materials from dielectric measurements p0082 N79-15557
- Nitrogen fixation with photosynthetic marine microorganisms [PB-286000/5] p0083 N79-15570
- Nitrogen fixation with photosynthetic marine microorganisms [PB-287590/4] p0120 N79-17525
- Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
- Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4] p0197 N79-25706
- Results of benthic studies at Calvert Cliffs [PB-294261/3] p0261 N79-29788
- MARINE CHEMISTRY**
- Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419
- MARINE ENVIRONMENTS**
- Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium. Volume 2: USSR Symposium [PB-287219/0] p0112 N79-16546
- MARKET RESEARCH**
- Eye-ball control p0270 A79-49225
- MARKING**
- NT ISOTOPIC LABELING
- Design of polymeric immunomicrospheres for cell labelling and cell separation p0275 A79-50234
- MARS (PLANET)**
- Biological implications of the Viking mission to Mars p0045 A79-14595
- Solar-driven chemical energy source for a Martian biota p0254 A79-46464
- Some comments on interpretations of Viking biological experiments p0255 A79-46465
- MARS ENVIRONMENT**
- The response of selected terrestrial organisms to the Martian environment - A modeling study p0136 A79-27928
- MARS PROBES**
- NT VIKING LANDER SPACECRAFT
- NT VIKING MARS PROGRAM
- NT VIKING SPACECRAFT
- MARS SURFACE**
- Chemical fingerprints of life in terrestrial soils and their possible use for the detection of life on Mars and other planets p0136 A79-27929
- MARS SURFACE SAMPLES**
- Public health considerations associated with a Mars surface sample return mission p0005 A79-12510
- MARSHES**
- U MARSHLANDS
- MARSHLANDS**
- Distribution of bluegreen algae in a Mississippi Gulf Coast salt marsh [PB-288982/2] p0153 N79-19667
- MASKING**
- Perceptual delay - A consequence of metacontrast and apparent motion p0035 A79-13183
- MASKS**
- NT OXYGEN MASKS
- Development of a specialized head/face protective device for test parachuting operations p0045 A79-14437
- Visual and optical assessment of gas protective face masks p0152 N79-19642
- An interface evaluation of the XM-29 protective mask and the AH-1S telescopic sight unit [AD-A064203] p0190 N79-22764
- Field evaluation of experimental crash-crew firefighter's facepiece [AD-A066544] p0223 N79-25765
- MASS**
- NT STELLAR MASS
- MASS DISTRIBUTION**
- The inertial properties of the body and its segments p0033 N79-11738
- MASS SPECTROMETRY**
- U MASS SPECTROSCOPY
- MASS SPECTROSCOPY**
- Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen p0164 A79-30655
- Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research p0109 N79-16528
- MASS TRANSFER**
- Mass transport in arteries p0247 N79-27848
- MATERIAL BALANCE**
- NT WATER BALANCE
- MATERIALS**
- Man and material in the cold regions, part 1 [AD-A063752] p0178 N79-21771
- MATERIALS HANDLING**
- NT REMOTE HANDLING
- MATERIALS RECOVERY**
- NT WATER RECLAMATION
- Utilization of the wastes of vital activity [NASA-TM-75410] p0177 N79-21768
- MATERIALS TESTS**
- Statistical studies of animal response data from USP toxicity screening test method p0066 A79-18305
- MATHEMATICAL LOGIC**
- NT ALGORITHMS
- NT AXIOMS
- NT EQUIVALENCE

- Overall loudness of steady sounds according to theory and experiment [NASA-RP-1001] N79-25753
- Some of the problems involved in planning biological experiments p0312 N79-33805
- MATHEMATICAL MODELS**
- NT ANALOG SIMULATION
 - NT DIGITAL SIMULATION
 - Various modeling approaches in biomechanics --- analog simulation of impact events p0005 A79-12407
 - Models for automated motor skills training --- computer controlled adaptive instruction p0035 A79-13182
 - A prediction model of arm push strength in the transverse plane p0037 A79-13195
 - Simulation and control of a human temperature regulation system p0041 A79-13613
 - The multiloop concept of the pilot work load as a basis of future experiments and studies [ONERA, TP NO. 1978-10] p0045 A79-14795
 - Sided stability considerations with vestibular models p0066 A79-18287
 - Modeling the effect of axial bronchial tension on expiratory flow p0067 A79-18957
 - Regulation and efficiency of sweating in man /Mathematical modeling/ p0097 A79-20622
 - Modeling heat transfer through human skin subjected to high external temperatures p0102 A79-23782
 - Linearization and sensitivity analysis of model for human eye movements p0102 A79-23783
 - A theoretical model to estimate some ergonomic parameters from age, height and weight p0132 A79-26150
 - Mechanics of the regulation of the respiratory system in man p0160 A79-29258
 - Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II p0166 A79-31178
 - Evaluation of models describing human operator control of slowly responding complex systems --- Thesis p0167 A79-31494
 - A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution p0204 A79-37957
 - The eccentric spheres model as the basis for a study of the role of geometry and inhomogeneities in electrocardiography p0226 A79-40649
 - Analysis of population mortality kinetics with application to the longevity followup of the Navy's '1,000 aviators' p0234 A79-43207
 - A structural model of the adaptive human pilot [AIAA 79-1784] p0252 A79-45411
 - Mathematical model of the respiration rhythm generation process p0254 A79-46268
 - Modeling human tracking performance in a high G-stress environment p0269 A79-48012
 - Fundamentals of electrical processes in the electrophysiology of the heart p0304 A79-53532
 - Basic biomechanics equations for cardiovascular flow p0304 A79-53534
 - A behavioral model of target acquisition in realistic terrain [AD-A056760] p0019 N79-10742
 - Density dependence of maximum expiratory flow p0050 N79-12691
 - Aerodynamic forces exerted on an articulated human body subjected to windblast [AD-A059023] p0055 N79-13688
 - Some recent results on the deposition of electromagnetic energy in animals and models of man
- Modeling the effects of high-G stress on pilots in a tracking task p0083 N79-15563
- AAA gunnermodel based on observer theory --- predicting a gunner's tracking response p0087 N79-15593
- Modeling the human as a controller in a multitask environment p0087 N79-15595
- A comparison of motor submodels in the optimal control model p0087 N79-15597
- Prospects of a mathematical theory of human behavior in complex man-machine systems tasks --- time sharing computer analogy of automobile driving p0088 N79-15599
- Petri nets as a modeling tool for discrete concurrent tasks of the human operator --- describing sequential and parallel demands on human operators p0088 N79-15600
- Discrete-time pilot model --- human dynamics and digital simulation p0088 N79-15601
- A model for dynamic allocation of human attention among multiple tasks p0092 N79-15627
- A model of human event detection in multiple process monitoring situations p0092 N79-15632
- Mathematical simulation of the human circulatory system p0110 N79-16535
- Modelling the human operator of slowly responding systems using linear models p0117 N79-17492
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- Image processing program completion report [AD-A061597] p0123 N79-17549
- Cell response to chronic irradiation-modeling and simulation studies p0142 N79-18562
- A model for predicting human discomfort response to combined noise and vertical vibration p0156 N79-19685
- The role of computer technology mathematical models in treatment of patients following heart surgery p0170 N79-20721
- Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772
- Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body p0192 N79-23628
- Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630
- A two level model of human steering behavior in a motor vehicle [FB-27] p0197 N79-24657
- User's instructions for the erythropoiesis regulatory model [NASA-CR-160193] p0216 N79-25711
- Development of an hypothesis for simulating anti-orthostatic bed rest [NASA-CR-160200] p0217 N79-25717
- Dynamic regulation of erythropoiesis: A computer model of general applicability [NASA-CR-160203] p0217 N79-25720
- A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722
- Improvements and validation of the erythropoiesis control model for bed rest simulation [NASA-CR-160187] p0218 N79-25728
- The development of a whole-body algorithm [NASA-CR-160214] p0218 N79-25730
- User's instructions for the GE cardiovascular model to simulate LBNP and tilt experiments, with graphic capabilities [NASA-CR-160216] p0219 N79-25732
- Study report on guidelines and test procedures for investigating stability of nonlinear

- cardiovascular control system models
 [NASA-CR-160229] p0219 N79-25734
- User's instructions for the whole-body algorithms
 [NASA-CR-160233] p0219 N79-25735
- The application of systems analysis and mathematical models to the study of erythropoiesis during space flight
 [NASA-CR-160218] p0219 N79-25739
- Tolerance of the neck to indirect impact
 [AD-A066971] N79-25749
- A comparison of three models for determining test fairness
 [AD-A066586] N79-25751
- The application of MINIQUASI to thermal program boundary and initial value problems
 [NASA-CR-160227] p0222 N79-25759
- Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection
 [AD-A066946] p0223 N79-25766
- Refinement and validation of a mathematical model of the human torso
 p0247 N79-27841
- A stochastic model of muscle fatigue in frequent strenuous work cycles
 p0261 N79-29789
- Simulation of head and neck response to -G sub x and +G sub z impacts
 p0285 N79-31908
- A three dimensional discrete element dynamic model of the spine, head and torso
 p0285 N79-31910
- Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub z stress
 p0286 N79-31916
- A head injury model
 p0286 N79-31918
- The use of mathematical modeling in crashworthy helicopter seating systems
 p0287 N79-31923
- Estimation of rate constants in the Michaelis-Menten model
 [AD-A070360] p0307 N79-32824
- A theoretical and experimental analysis of the outside world perception process
 [NLR-MP-78020-U] p0309 N79-32835
- Analytical modelling of load-deflection behavior of intervertebral discs subjected to axial compression
 [AD-A071019] p0316 N79-33830
- A general model for the transfer of vapour through clothed skin from liquid on and in clothing
 [AD-A071577] p0319 N79-33853
- MATHEMATICAL PROGRAMMING**
- NT DYNAMIC PROGRAMMING
- Evaluation of exercise-respiratory system modifications and integration schemes for physiological systems
 [NASA-CR-160223] p0219 N79-25733
- MATRICES (MATHEMATICS)**
- Observability of electrical heart activity studied with singular value decomposition
 [TH-78-E-81] p0144 N79-18584
- MATRIX ANALYSIS**
- U MATRICES (MATHEMATICS)
- SATURING**
- U GROWTH
- MAXIMUM LIKELIHOOD ESTIMATES**
- Estimation of the operating characteristics of item response categories, 3: The normal approach method and the Pearson system
 [AD-A056747] p0145 N79-18587
- MCDONNELL AIRCRAFT**
- NT F-4 AIRCRAFT
- MCDONNELL DOUGLAS AIRCRAFT**
- NT F-4 AIRCRAFT
- NT F-18 AIRCRAFT
- MEASURE AND INTEGRATION**
- NT WEIGHTING FUNCTIONS
- Nonparametric measures of sensory efficiency for sustained monitoring tasks
 p0161 A79-29719
- Physiological system integrations with emphasis on the respiratory-cardiovascular system
 [NASA-CR-160230] p0213 N79-24643
- MEASURE THEORY**
- U MEASURE AND INTEGRATION
- MEASURING INSTRUMENTS**
- NT APPROACH INDICATORS
- NT COUNTERS
- NT DOSIMETERS
- NT ERGOMETERS
- NT FLIR DETECTOPS
- NT FLOWMETERS
- NT HOT-FILM ANEMOMETERS
- NT INDICATING INSTRUMENTS
- NT INFRARED INSTRUMENTS
- NT LASER DOPPLER VELOCIMETERS
- NT MAGNETOMETERS
- NT MANOMETERS
- NT MICROWAVE PROBES
- NT OCULOMETERS
- NT OPTICAL MEASURING INSTRUMENTS
- NT PHOTOMETERS
- NT RHEOMETERS
- NT SATELLITE-BORNE INSTRUMENTS
- NT STRAIN GAGES
- NT TEMPERATURE MEASURING INSTRUMENTS
- Devices for synchronizing a digital measuring apparatus with biological signals
 p0160 A79-29271
- Review of chest deflection measurement techniques and transducers
 [PB-283654/2] p0051 N79-12702
- Lightweight helmet-mounted eye movement measurement system
 p0090 N79-15619
- Techniques of measurement
 p0247 N79-27850
- MECHANICAL DEVICES**
- Development of an electrical energy converter for driving left heart assist blood pumps
 [PB-293510/4] p0241 N79-26780
- MECHANICAL DRIVES**
- Visually estimating workpiece pose in a robot hand using the feature points method
 p0269 A79-48018
- MECHANICAL MEASUREMENT**
- NT FLOW MEASUREMENT
- NT PRESSURE MEASUREMENTS
- NT VELOCITY MEASUREMENT
- NT VIBRATION MEASUREMENT
- A quasi-linear control theory analysis of timesharing skills
 p0120 N79-17520
- MECHANICAL PROPERTIES**
- NT ELASTIC PROPERTIES
- NT MODULUS OF ELASTICITY
- NT SHEAR STRENGTH
- NT THERMAL RESISTANCE
- The mechanical properties of manipulation systems
 p0231 A79-42017
- Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations
 [BMVG-FBWT-78-11] p0146 N79-18593
- Mechanics of blood flow through normal and stenotic coronary arteries
 p0154 N79-19676
- MECHANICAL SHOCK**
- Correlation of head injury with mechanical forces based on helmet damage duplication
 p0287 N79-31920
- The use of spinal analogue to compare human tolerance of repeated shocks with tolerance of vibration, part 1
 p0288 N79-31926
- The response of a realistic computer model for sitting humans to different types of shocks
 p0288 N79-31927
- MEDICAL ELECTRONICS**
- The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil
 p0210 A79-39974
- Microwave apexcardiography
 p0231 A79-41848
- Skin-resistance measuring device with higher resolution
 p0252 A79-45476
- The development of a digital video subtraction system for intravenous angiography
 p0294 A79-51033
- Hybridization of biomedical circuitry
 [NASA-CR-151874] p0111 N79-16543

- MEDICAL EQUIPMENT**
- NT ARTIFICIAL HEART VALVES
 - NT BLOOD PUMPS
 - NT ENDOSCOPES
 - NT PROSTHETIC DEVICES
 - NT RESPIRATORS
 - Medical technology transfer p0048 N79-16138
 - Noninvasive cardiovascular measurements --- Book p0293 A79-51026
 - Biocompatible materials, volume 2. A bibliography with abstracts [NTIS/PS-78/0675/5] p0019 N79-10736
 - Assessing the efficacy and safety of medical technologies [PB-286929/5] p0085 N79-15580
 - Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545
 - Microprocessor: Based prosthetic control [PR-286652/3] p0113 N79-16559
 - Apparatus for endoscopic examination [NASA-CASE-NPO-14092-1] p0155 N79-19678
 - General activities related to medical research [TNO-MPI-PR-6] p0262 N79-29793
 - Spine immobilization method and apparatus --- rigid bladder [NASA-CASE-ARC-11167-1] p0279 N79-30921
- MEDICAL PERSONNEL**
- NT FLIGHT SURGEONS
- MEDICAL SCIENCE**
- NT EPIDEMIOLOGY
 - NT HISTOLOGY
 - NT HUMAN PATHOLOGY
 - NT IMMUNOLOGY
 - NT NEUROLOGY
 - NT OTOLARYNGOLOGY
 - NT OTOLOGY
 - NT PATHOLOGY
 - NT PSYCHIATRY
 - NT RADIATION MEDICINE
 - NT RADIOBIOLOGY
 - NT RADIOLOGY
 - NT RADIOPATHOLOGY
 - NT SYMPTOMATOLOGY
 - NT UROLOGY
 - Signal processing in ultrasound --- for diagnostic medicine p0294 A79-51039
- Translations on USSR science and technology. Biomedical and behavioral science, no. 54 [JPRS-72650] p0077 N79-14753
- A complex system for planning scientific medical research p0078 N79-14761
- Problem-oriented program approach to planning and management of medicine p0078 N79-14762
- The conception of the systems analytic approach to planning and organization of medical scientific research p0078 N79-14764
- Current status and prospects of continued refinement of planning and coordination of scientific medical research p0078 N79-14765
- The systems analytic approach to the problem of classification of scientific medical research p0078 N79-14766
- Crawford and Lavoisier on the method of development and place of formation of body heat [BLL-RTS-11228] p0142 N79-18568
- Regional program for acquisition of medical experiments. [NASA-CR-160121] p0155 N79-19677
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 50 [JPRS-72462] p0170 N79-20720
- Technical evaluation report on the Aerospace Medical Panel London Specialists' Meeting, Fall 1977 --- disease prevention, flight fitness, and findings in cardiology and pulmonary function [AGARD-AR-131] p0171 N79-20729
- Prospective medicine opportunities in aerospace medicine p0171 N79-20730
- Specific findings in cardiology and pulmonary function with special emphasis on assessment criteria for flying p0171 N79-20731
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 60 [JPRS-73135] p0175 N79-21745
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 81 [JPRS-73729] p0249 N79-27860
- Skylab medical data evaluation program (SMEDDP) [NASA-CR-160279] p0259 N79-28869
- General activities related to medical research [TNO-MPI-PR-6] p0262 N79-29793
- MEDICAL SERVICES**
- Medical technology transfer p0048 A79-16138
 - Evaluation of the helicopter in aeromedical transfers p0128 A79-24638
 - Ensuring medical fitness on entry and during service in aircrew in IAF p0182 A79-33187
 - Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen p0027 N79-11699
 - An illness-injury severity index p0050 N79-12688
 - Assessing the efficacy and safety of medical technologies [PB-286929/5] p0085 N79-15580
 - An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
 - Telehealth handbook: A guide to telecommunications technology for rural health care [PB-292557/6] p0241 N79-26778
- MEETINGS**
- C CONFERENCES
- MELANIN**
- Solar radiation, light protection and tanning of human skin [BLL-RTS-11580] p0142 N79-18574
- MEMBRANE ANALOGY**
- U MEMBRANE STRUCTURES
- MEMBRANE STRUCTURES**
- Membranous evolution in the primitive cell p0206 A79-37977
- MEMBRANES**
- NT MEMBRANE STRUCTURES
 - NT PLEURA
 - Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for sodium ions in Halobacterium halobium - Translocation stoichiometries and apparent cooperativity p0002 A79-10425
 - Temperature-dependent morphological changes in membranes of Bacillus stearothermophilus p0005 A79-12475
 - A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19] p0007 A79-12568
 - Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702
 - Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
 - Energy transduction in Halobacterium halobium p0300 A79-53000
 - Evaluation of fluoropolymer membranes in oxygenators [PP-286698/6] p0112 N79-16547
 - Raman spectroscopy of biological membranes and other biological systems p0141 N79-18559
 - A theoretical study of membrane diffusion and lymphocyte patching p0142 N79-18563
 - Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes p0147 N79-19591
 - Magnetic field effect on radial processes in biological membranes p0172 N79-20737
 - The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission p0172 N79-20737

[AD-A063856]	p0213 N79-24647	Effect of hypoxia on the development of <i>Drosophila melanogaster</i> /Meigen/
MEMORY		p0165 A79-30667
Relationship between the reproduction tactics and the major indices of speech retention-reproduction processes	p0254 A79-46276	Nitrate fermentation in <i>Clostridium perfringens</i> and significance in metabolic evolution
A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology	[AD-A069983] p0308 N79-32833	p0205 A79-37968
Human memory. A bibliography with abstracts [NTIS/PS-79/0640/7]	p0318 N79-33847	Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission
MENTAL HEALTH		p0229 A79-41713
Evaluation of biofeed therapy	[PB-287777/7] p0123 N79-17543	Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite <i>Cosmos 782</i>
MENTAL PERFORMANCE		p0230 A79-41714
Mental work and emotions --- Russian book	p0002 A79-10847	Effects of space flight on plasma and glandular concentrations of pituitary hormones --- <i>COSMOS 782</i> satellite
The inhibitory trace effect as a manifestation of the integrative activity of the human brain in performing voluntary motor acts	p0159 A79-28737	p0021 N79-11664
Conjoint effect of physical stress and noise stress on information processing performance and cardiac response	p0161 A79-29715	Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill
Effects of partial sleep deprivation on psychological performance and behaviour	p0200 A79-37130	p0024 N79-11681
Analysis of electroencephalogram during psychomotor performance	p0209 A79-38820	Effects of microwaves on catecholamine metabolism in the brain
Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance	p0235 A79-43210	p0075 N79-14739
Relationship between the reproduction tactics and the major indices of speech retention-reproduction processes	p0254 A79-46276	State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field
Time-sharing is not a unitary ability	[AD-A056632] p0019 N79-10739	p0075 N79-14742
Retention and transfer of training on a procedural task interaction of training strategy and cognitive style	[AD-A058966] p0052 N79-12704	Clozapine metabolism in humans [BLR-RTS-10902]
Information processing in humans, volume 2. A bibliography with abstracts [NTIS/PS-78/1153/2]	p0058 N79-13709	p0142 N79-18567
Reduced mental capacity and behavior of a rider of a bicycle simulator under alcohol stress or under dual task load	p0116 N79-17489	Metabolism of hydrazine [AD-A062251]
Development of information theory concepts and equations for human mental processing	[AD-A068606] p0260 N79-28877	p0169 N79-20716
Human performance in time-shared verbal and tracking tasks	[AD-A070275] p0308 N79-32831	Metabolic rate meter and method [NASA-CASE-MSC-12239-1]
MENTAL STRESS		p0175 N79-21750
STRESS (PSYCHOLOGY)		Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man
MERCURY (METAL)		p0192 N79-23634
The distribution of cadmium and other metals in human tissues	[PB-285200/2] p0057 N79-13703	Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon dioxide production during fever and its relationship with heat production [NASA-TM-75452]
METABOLIC WASTES		p0211 N79-24632
NT FECES		Strontium metabolism in the rebuilding of skeletal tissue [NASA-CR-160195]
NT HUMAN WASTES		p0216 N79-25713
NT URINE		Cu-content of the liver of young mice in relation to a defect in the Cu-metabolism [IRI-133-77-02]
Concentration of trace contaminants during gas chromatography and chromat-mass spectrometry in biomedical research	p0109 N79-16528	p0239 N79-26764
METABOLISM		Results of a ⁶⁴ Cu-loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04]
NT ADRENAL METABOLISM		p0240 N79-26774
NT CALCIUM METABOLISM		The oral ⁶⁴ Cu-loading test: Applications and problems [IRI-133-78-02]
NT CARBOHYDRATE METABOLISM		p0240 N79-26775
NT CATABOLISM		Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard <i>Cosmos-782</i> biosatellite
NT ELECTROLYTE METABOLISM		p0244 N79-27822
NT ENZYME ACTIVITY		Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard <i>Cosmos-690</i> biosatellite
NT FERMENTATION		p0244 N79-27823
NT HORMONE METABOLISMS		Effect of hyperbaric oxygen on peripheral blood neutrophil metabolism
NT LIPID METABOLISM		p0245 N79-27830
NT MINERAL METABOLISM		Studies of metabolism, function and mechanism of destruction of red cells [AD-A070240]
NT NITROGEN METABOLISM		p0315 N79-33828
NT OXYGEN METABOLISM		METAGALAXY
NT PROTEIN METABOLISM		U UNIVERSE
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting	p0127 A79-24634	METAL FORGING
		U FORGING
		METAL HALIDES
		NT SODIUM CHLORIDES
		NT ZINC CHLORIDES
		METAL IONS
		Prebiotic condensation of oligonucleotide
		p0204 A79-37945
		Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium
		p0204 A79-37964
		Studying the state of cellular metal ions by the extended X-ray absorption fine structure
		[AD-A069799] p0279 N79-30914

METAL OXIDES	MICROMANOMETERS
NT KAOLINITE	U MANOMETERS
METAL WORKING	MICRONINITIALIZATION
NT FORGING	NT LARGE SCALE INTEGRATION
METALLORGANIC COMPOUNDS	MICROORGANISMS
U ORGANOMETALLIC COMPOUNDS	NT AEROBES
METALS	NT ANAEROBES
NT ALUMINUM	NT BACTERIA
NT AMERICIUM 241	NT BACTERIOPHAGES
NT CADMIUM	NT CLOSTRIDIUM BOTULINUM
NT CALCIUM	NT ESCHERICHIA
NT CHROMIUM ISOTOPES	NT NITROBACTER
NT COPPER ISOTOPES	NT PARAMYCIA
NT IRON	NT PSYCHROPHILES
NT LEAD (METAL)	NT SALMONELLA
NT MAGNESIUM	NT SPORES
NT MERCURY (METAL)	NT VIRUSES
NT PALLADIUM	Microflora analysis of a child with severe combined immune deficiency
NT PLATINUM	p0004 A79-11900
NT POTASSIUM	Microbial Check Valve for Shuttle
NT POTASSIUM 40	[ASME PAPER 78-ENAS-27]
NT SODIUM	The Viking biological investigations - Review and status
NT SODIUM ISOTOPES	p0008 A79-12576
NT SODIUM 22	The response of selected terrestrial organisms to the Martian environment - A modeling study
NT STRONTIUM	p0136 A79-27928
NT TRANSITION METALS	Effect of electromagnetic fields in long-, medium-, and short-wave ranges on biological objects
NT VANADIUM	p0185 A79-33713
NT ZINC	Minute tubular forms in soil
NT ZIRCONIUM	p0297 A79-51698
METAZOA	Water system microbial check valve development
U ANIMALS	[NASA-CR-151843]
METEORITE COMPRESSION TESTS	p0032 N79-11733
U MECHANICAL PROPERTIES	Vitrogen fixation with photosynthetic marine microorganisms
METEOROLOGICAL PARAMETERS	[PB-286000/5]
Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873]	p0083 N79-15570
	Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms
METEOROLOGICAL SERVICES	[NBC/CNR-TT-1924]
Pilot preflight briefing utilizing an interactive computer generated Voice Response System	p0120 N79-17521
	Nitrogen fixation with photosynthetic marine microorganisms
	[PB-287590/4]
METEOROLOGY	Intestinal autoflora as an indicator of severity of radiation lesion
Fighter index of thermal stress: Relation to weather conditions at ATC and TAC bases [AD-A062713]	p0121 N79-17530
	Aphotometer for determining the biomass of microorgan from the ATP content
METERS	[BLL-RTS-11456]
U MEASURING INSTRUMENTS	p0141 N79-18555
METHACRYLATE RESINS	The effect of 1 to 5 keV electrons on the reproductive integrity of microorganisms
U ACRYLIC RESINS	p047 N79-19025
METHANE	Microflora of water reclaimed in sealed compartments
Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres	p0193 N79-23638
	Microbial transformation of nucleosides
	[NASA-CR-158696]
METHODOLOGY	p0197 N79-25704
Official method for determining ocular irritation [BLL-RTS-11221]	Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components
	[NASA-CR-158627]
METHODS	p0197 N79-25705
U METHODOLOGY	Microbial load monitor
METROPOLITAN AREAS	[NASA-CR-160274]
U CITIES	Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems
MICE	p0246 N79-27834
Cu-content of the liver of young mice in relation to a defect in the Cu-metabolism [IRI-133-77-02]	MICROPHOTOMETERS
	U PHOTOMETERS
MICHAELIS THEORY	MICROPROCESSORS
Estimation of rate constants in the Michaelis-Menten model [AD-A070360]	Non-invasive information on the P-R segment of the cardiac cycle - An assessment of the clinical potential of the electric and magnetic methods
	p0295 A79-51045
MICROBE	Microprocessor: Based prosthetic control
U MICROORGANISMS	[PB-286652/3]
MICROBIOLOGY	A preliminary investigation of aural input/output systems for in-flight information retrieval
NT BACTERIOLOGY	[AD-A063174]
Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57 [JPRS-72808]	p0113 N79-16559
	p0178 N79-21770
Immunobiological reactivity of the body under hyperbaric and hypobaric conditions	MICROSCOPY
	NT ELECTRON MICROSCOPY
	MICROWAVE EMISSION
	The time parameter in exposures to microwave radiation --- rodent experiments on damage and recovery
MICROCLIMATOLOGY	p0105 A79-24419
Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India	Protection standards for microwave and radiofrequency radiations
	p0300 A79-52878
MICROELECTRONICS	
NT LARGE SCALE INTEGRATION	

SUBJECT INDEX

MILITARY HELICOPTERS

MICROWAVE EQUIPMENT	
NT MICROWAVE PROBES	
Microwave apexcardiography	p0231 A79-41848
MICROWAVE FREQUENCIES	
NT SUPERHIGH FREQUENCIES	
The Physical Basis of Electromagnetic Interactions with Biological Systems [HEW-PUB-FDA-78-8055]	p0081 N79-15551
Classical theory of microwave interactions with biological systems	p0082 N79-15556
Determination of bound water in biological materials from dielectric measurements	p0082 N79-15557
Microwave frequencies and the structure of the double helix	p0082 N79-15559
Microwave and RF dosimetry	p0083 N79-15561
MICROWAVE LANDING SYSTEMS	
Perpetual factors involved in performance of air traffic controllers using a microwave landing system	p0092 N79-15628
MICROWAVE PROBES	
Microwave thermography: Physical principles and diagnostic applications	p0083 N79-15567
MICROWAVE RADIATION	
U MICROWAVES	
MICROWAVE RESONANCE	
An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals --- Specific Absorption Rate	p0278 A79-51015
MICROWAVES	
NT MICROWAVE EMISSION	
NT MILLIMETER WAVES	
Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour	p0047 A79-15493
A hazard assessment method for the U.S. Army Microwave Radiation Protection Program	p0129 A79-25304
Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves	p0188 A79-35917
Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves	p0188 A79-35918
Effect of microwave radiation on the resistance of rats to transverse acceleration loading	p0275 A79-50496
Time parameter in microwave irradiation --- rodent experiments on damage and recovery	p0277 A79-50694
Translations on USSR science and technology: Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606]	p0074 N79-14736
Effects of microwaves on catecholamine metabolism in the brain	p0075 N79-14739
Dependence of the functional activity of liver mitochondria on microwave radiation --- oxidative phosphorylation	p0075 N79-14741
Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions	p0075 N79-14743
Electromagnetic fields in biological media. Part 1: Dosimetry - a primer on bioelectromagnetics [PB-285793/6]	p0078 N79-14759
Survey of microwave and radiofrequency biological effects and mechanisms	p0082 N79-15552
Effect on mice of microwaves in the non-thermal intensity region. Respiration, rectal temperature and mental reaction [FOA-C-54021-H2 (H6)]	p0120 N79-17523
Immunological effects of microwave action	p0172 N79-20736
Studies on the microwave-induced auditory effect [PB-290598/2]	p0213 N79-24648
Problems related to the assessment of safe exposure levels for radio frequency and microwave radiation	
[ISS-P-78/7]	p0248 N79-27855
Biological effects of microwaves, volume 1. A bibliography with abstracts [NTIS/PS-79/0432/9]	p0280 N79-30929
Biological effects of microwaves, volume 2. A bibliography with abstracts [NTIS/PS-79/0433/7]	p0280 N79-30930
Metabolic and physical scaling in microwave/radiofrequency bioeffects studies [UR-3490-1561]	p0316 N79-33831
URINATION	
MIDAIR COLLISIONS	
NT BIRD-AIRCRAFT COLLISIONS	
Analyses of midair collisions in German airspace: Methodology and results	p0291 N79-31949
MIDDLE EAR	
Cases of probable Aero Otitis interna	p0183 A79-33194
Analysis of inert gas exchange in the middle ear	p0017 N79-10723
MIDLATITUDES	
U TEMPERATE REGIONS	
MIE SCATTERING	
NT RAYLEIGH SCATTERING	
MIGRATION	
Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues	p0233 A79-42932
The role of insect dispersal and migration in population processes	p0147 N79-19593
MILITARY AIR FACILITIES	
Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India	p0201 A79-37135
MILITARY AIRCRAFT	
Current trends in UK military aircrew survival equipment	p0183 A79-33633
Vertebral fractures in Gnat ejections	p0201 A79-37134
MILITARY AVIATION	
Relations between research and instruction in physiology and aerospace ergonomics in the military health services	p0104 A79-23960
Naval aviation training - Perspective and prospects [SAE PAPER 781004]	p0130 A79-25886
Army Aviation Training - Research now and then [SAE PAPER 781008]	p0130 A79-25890
Ensuring medical fitness on entry and during service in aircrew in IAF	p0182 A79-33187
USAF life support system 412A - 1978 corporate report	p0183 A79-33602
Incidence of spinal disability amongst IAF pilots - Follow up of 38 cases	p0201 A79-37133
Aeromedical aspects of flying training with special reference to instructor pupil relationship	p0201 A79-37139
MILITARY HELICOPTERS	
NT UH-1 HELICOPTER	
Oxygen systems for Army helicopters	p0044 A79-14421
Internal cockpit reflections of external point light sources for the model YAH-64 advanced attack helicopter [AD-A056489]	p0033 N79-11744
Visual effects of helicopter maneuvre on weapon aiming performance	p0150 N79-19626
A system of training in aviation physiology and human factors for Army and Navy helicopter aircrew	p0151 N79-19635
Disorientation in Royal Naval helicopter pilots	p0152 N79-19648
Training requirements for helicopter operation with night vision goggles	p0153 N79-19650
A study of pilot/observed interaction in aligning a helicopter with a target	

MILITARY OPERATIONS**SUBJECT INDEX**

[DLR-FB-79-04]	p0283 N79-30945	p0068 A79-18966
The use of mathematical modeling in crashworthy helicopter seating systems	p0287 N79-31923	The effect of plasmoidal slime on the metabolism of haploid cells of <i>Physarum flavicomum</i> and the respiration of isolated mitochondria
MILITARY OPERATIONS		p0105 A79-24513
NT COMBAT		Tissular respiration of the brain after exposure of rats to hypertoxic helium and oxygen mixtures at atmospheric and elevated pressure
Medical qualification procedures for hazardous-duty aeromedical research	p0026 N79-11695	p0015 N79-10712
A prospective medicine approach to the problem of ischemic vascular disease in the USAF	p0027 N79-11697	Molecular determinants for the prediction and survival of ischemic anoxic stress pathology
Man and materiel in the cold regions, part 1 [AD-A063752]	p0178 N79-21771	p0027 N79-11700
Physiological effects of a military training program on males and females [AD-A062936]	p0220 N79-25744	Dependence of the functional activity of liver mitochondria on microwave radiation --- oxidative phosphorylation
MILITARY PSYCHIATRY		p0075 N79-14741
U MILITARY PSYCHOLOGY		State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field
MILITARY PSYCHOLOGY		p0075 N79-14742
Psychosis in air force flight personnel during the last 25 years	p0103 A79-23957	MITOSIS
Investigation of psychological compatibility of crew members of multiseat aircraft	p0166 A79-31165	Senescent changes in the ribosomes of animal cells in vivo and in vitro
MILITARY TECHNOLOGY		p0134 A79-27226
U.S. Navy development of an on-board oxygen generation /OBOG/ system	p0183 A79-33634	MIXTURES
Test and evaluation in the acquisition process - A look at the PLZT goggle	p0184 A79-33642	NT AEROSOLS
Test and evaluation process for life support systems	p0184 A79-33643	NT AQUEOUS SOLUTIONS
 MILLIMETER WAVES		NT COLLOIDS
Millimeter wave and far infrared absorption in biological systems	p0082 N79-15554	NT DISPERSIONS
Effect of radio waves of a millimeter frequency range on the body of man and animals	p0172 N79-20735	NT EXPPIED AIR
MINERAL METABOLISM		NT FOG
Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity	p0010 A79-12869	NT GAS MIXTURES
Effect of sodium and calcium ingestion on thermoregulation during exercise in man	p0163 A79-30624	NT SMOKE
MINERALS		MODAL RESPONSE
NT BARITE		Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles
NT KAOLINITE		p0286 N79-31917
NT MONTMORILLONITE		MODE SHAPES
MINIATURE ELECTRONIC EQUIPMENT		U MODAL RESPONSE
The use of hybrid integrated circuit techniques in biotelemetry applications	p0131 A79-26145	MODELS
MINIMIZATION		NT ANALOG SIMULATION
U OPTIMIZATION		NT ATMOSPHERIC MODELS
MIRRORS		NT DIGITAL SIMULATION
NT ROTATING MIRRORS		NT DYNAMIC MODELS
MISSILE DETECTION		NT ENVIRONMENT MODELS
NT RADAR DETECTION		NT MATHEMATICAL MODELS
MISSILE RANGES		Survey of human operator modeling techniques for measurement applications
Minuteman missile crew fatigue and 24-hour alerts [AD-A056561]	p0056 N79-13696	[AD-A058327] p0058 N79-13713
MISSILE STABILIZATION		Analysis and validation of human biodynamic models [AD-A059013] p0058 N79-13714
U STABILIZATION		Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PBE-289951/6] p0179 N79-21776
MISSILES		A long term model of circulation --- human body [NASA-CR-147674] p0212 N79-24636
NT AIR TO AIR MISSILES		Combined discrete network-continuous control modeling of man-machine systems
MISSION PLANNING		p0260 N79-28879
Life sciences experiments in the first Spacelab mission [ASME PAPER 78-ENAS-26]	p0008 A79-12575	MODERATION (ENERGY ABSORPTION)
Life sciences experiments mission development test program [ASME PAPER 78-ENAS-36]	p0008 A79-12583	NT THERMALIZATION (ENERGY ABSORPTION)
Study of crew task loading on the C-141A aircraft [AD-A057346]	p0034 N79-11746	MODIFICATION
MISSOURI		U REVISIONS
Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0]	p0243 N79-27816	MODULATION
MITOCHONDRIA		NT AMPLITUDE MODULATION
A study of axonal degeneration in the optic nerves of aging mice	p0005 A79-12123	NT LIGHT MODULATION
Effect of physical conditioning on cardiac mitochondrial function		MODULES
		NT SERVICE MODULES
		NT SPACECRAFT MODULES
		MODULUS OF ELASTICITY
		A quasi-linear control theory analysis of timesharing skills
		p0120 N79-17520
MOISTURE		MOISTURE
NT SOIL MOISTURE		NT SOIL MOISTURE
MOISTURE CONTENT		MOISTURE CONTENT
		Human skin wettedness and evaporative efficiency of sweating
		p0162 A79-29726
		Determination of bound water in biological materials from dielectric measurements
		p0082 N79-15557
		Interfacial and intracellular water: Expected anomalies in dielectric properties
		p0082 N79-15558
MOL (ORBITAL LABORATORIES)		
U MANNED ORBITAL LABORATORIES		

MOLD	Effects of gravity on contractile proteins [NASA-CR-160303]	p0279 N79-30913	systems --- sensitivity of operators versus monitors to failures	systems --- sensitivity of operators versus monitors to failures
MOLECULAR ABSORPTION	Interfacial and intracellular water: Expected anomalies in dielectric properties	p0082 N79-15558	Microbial load monitor [NASA-CR-160274]	p0087 N79-15596 p0243 N79-27815
MOLECULAR BIOLOGY	The augmentation algorithm and molecular phylogenetic trees	p0070 A79-20267	Automated biowaste sampling system feces monitoring system [NASA-CR-160301]	p0281 N79-30937
	Chirality of compounds essential for the existence of life, and the possibility of its evolution in the universe	p0186 A79-34464	Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730]	p0282 N79-30942
	An approach to the origin of self-replicating system. I - Intermolecular interactions	p0204 A79-37948	MONKEYS	
	Quantitative aspects of the effect of weak interaction during chemical evolution	p0204 A79-37959	Thermoregulation in Macaca mulatta - A thermal balance study	p0133 A79-27101
	The crisis in the problem of the origin of life	p0207 A79-37982	Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission	p0229 A79-41713
	Evolution of the biosphere /2nd enlarged edition/ --- Russian book	p0270 A79-48310	MONOCHROMATIC RADIATION	
MOLECULAR BONDS	Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes	p0147 N79-19591	Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons	p0232 A79-42234
MOLECULAR CHAINS			MONOCRYSTALS	
	Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes	p0147 N79-19591	U SINGLE CRYSTALS	
MOLECULAR DIFFUSION	Convective control of long-range coherence in plant growth regulation	p0006 A79-12515	MONOCULAR VISION	
			Objective determination of human visual acuity from the visual evoked potential	p0228 A79-41423
MOLECULAR DISSOCIATION			MONOLITHIC CIRCUITS	
U DISSOCIATION			U INTEGRATED CIRCUITS	
MOLECULAR ELECTRONICS			MONOPLANES	
NT LARGE SCALE INTEGRATION			NT A-7 AIRCRAFT	
MOLECULAR ENERGY LEVELS			NT C-135 AIRCRAFT	
NT INTERMOLECULAR FORCES			NT C-141 AIRCRAFT	
MOLECULAR INTERACTIONS			NT F-104 AIRCRAFT	
NT INTERSTELLAR CHEMISTRY			MONTE CARLO METHOD	
	Interaction between inositol hexaphosphate and carbobenzoxy peptide - A model for nucleic acid - Nonhistone chromosomal protein interaction	p0100 A79-22082	The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices [AD-A068581]	p0281 N79-30932
	An approach to the origin of self-replicating system. I - Intermolecular interactions	p0204 A79-37948	MONTMORILLONITE	
MOLECULAR IONS			Synthesis of amino acids under primitive earth conditions in the presence of clay	p0203 A79-37930
	Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres	p0099 A79-22079	MOODS	
			Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit	p0234 A79-43202
MOLECULAR SIEVES			MORPHOLOGY	
U ABSORBENTS			NT LUNG MORPHOLOGY	
MOLECULAR SPECTRA			Temperature-dependent morphological changes in membranes of Bacillus stearothermophilus	p0005 A79-12475
NT VIBRATIONAL SPECTRA			The physical appearance of intelligent aliens	p0105 A79-24519
MOLECULAR SPECTROSCOPY			Morphological and biochemical effects of oxygen toxicity [AD-A056778]	p0018 N79-10734
NT RAMAN SPECTROSCOPY			The morphogenetic responses of cultured totipotent cells of carrot (Daucus carota L.) at zero gravity --- cosmos 782	
MOLECULAR STRUCTURE				p0021 N79-11657
	A molecular description of oxygen binding to hemoglobin	p0194 N79-23646	The effects of the pollutant, sodium cyanide, on the morphology and physiology of oedogonium cardiacum	p0147 N79-19028
MOLECULAR THEORY			A study of the mechanism of thigmomorphogenesis in plants, with special reference to the role of ethylene and its significance to research with plants in space [NASA-CR-158506]	p0190 N79-23625
	A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution	p0204 A79-37957	MORTALITY	
MOMENTS			Analysis of population mortality kinetics with application to the longevity followup of the Navy's 1,000 aviators'	p0234 A79-43207
NT MOMENTS OF INERTIA			MOSS (SPACE STATIONS)	
NT TORQUE			U ORBITAL SPACE STATIONS	
MOMENTS OF INERTIA	The inertial properties of the body and its segments	p0033 N79-11738	MOTILITY	
	Range of joint motion	p0033 N79-11740	U LOCOMOTION	
MONAURAL SIGNALS	Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation	p0159 A79-28735	MOTION	
			Short-range movement of major agricultural pests	p0148 N79-19594
MONITORS	The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic			

MOTION AFTEREFFECTS

- Graphic display of human motion [AD-A064344] p0190 N79-22763
 Helmet weight simulator [NASA-CASE-LAR-12320-1] p0223 N79-25761
- MOTION AFTEREFFECTS**
 Space Sled - A multipurpose apparatus for vestibular research aboard Spacelab [DGRL PAPER 78-132] p0042 A79-14083
 Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery p0046 A79-14969
- MOTION EQUATIONS**
 U EQUATIONS OF MOTION
- MOTION PERCEPTION**
 Factors controlling the competing sensations produced by a bistable stroboscopic motion display p0104 A79-24067
 Hyper-resolution in human perception of movement in visual displays p0132 A79-26240
 Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements p0135 A79-27558
 Omnidirectional increase in threshold for image shifts during saccadic eye movements p0139 A79-28198
 Smooth pursuit eye movements - Is perceived motion necessary p0139 A79-28375
 Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
 Perception of continuity in stroboscopic motion - A temporal frequency analysis p0186 A79-34375
 The interpretation of visual motion --- Book p0186 A79-34424
 The visual perception of motion in depth p0210 A79-39087
 The role of perceived motion in smooth pursuit eye movements p0225 A79-40184
 The effect of expectations on slow oculomotor control. I - Periodic target steps. II - Single target displacements p0225 A79-40185
 Form information is necessary for the perception of motion p0232 A79-42235
 Direction-selective adaptation with very slow motion p0265 A79-47118
 Mutual repulsion between moving visual targets p0275 A79-50473
 Motion and vision. I - Stabilized images of stationary gratings p0278 A79-50986
 Visual motion perception by intelligent systems p0300 A79-52691
 A theoretical and experimental analysis of the outside world perception process p0091 N79-15625
 Perpetual factors involved in performance of air traffic controllers using a microwave landing system p0092 N79-15628
 Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
 A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
 Motion cue effects on human pilot dynamics in manual control p0119 N79-17514
 Motion cue models for pilot-vehicle analysis [AD-A061477] p0125 N79-17561
- MOTION SICKNESS**
 Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574
 Voluntary movement control and adaptation to cross-coupled stimulation --- motion sickness avoidance p0009 A79-12860
 Motion sickness susceptibility - A retrospective comparison of laboratory tests p0010 A79-12861

SUBJECT INDEX

- Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements p0135 A79-27558
 Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness p0165 A79-30662
 Motion sickness in cats - A symptom rating scale used in laboratory and flight tests p0202 A79-37711
 +Gz tolerance correlation with clinical parameters p0235 A79-43213
 Estimated body rotation as a predictor of motion sickness susceptibility p0273 A79-49990
 Third Symposium on Motion Sickness p0313 N79-33814
- MOTION SICKNESS DRUGS**
 Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639
 Motion sickness in cats - A symptom rating scale used in laboratory and flight tests p0202 A79-37711
- MOTION SIMULATORS**
 Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972
 The relationship between flight simulator motion and training requirements p0267 A79-47766
 A method motion simulator design based on modeling characteristics of the human operator p0091 N79-15623
 Investigation of nonlinear motion simulator washout schemes p0091 N79-15624
 The effect of a visual/motion display mismatch in a single axis compensatory tracking task p0118 N79-17511
 The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving [IZF-1978-16-PR-1] p0145 N79-18588
- MOTION STABILITY**
 NT AERODYNAMIC STABILITY
 NT AIRCRAFT STABILITY
 NT FLOW STABILITY
 NT HOVERING STABILITY
 Selecting the program of motions for a biped walking machine p0166 A79-31490
 Stabilization of a biped walking machine with incomplete information on its phase coordinates p0273 A79-49879
 Roll tracking effects of G-vector tilt and various types of motion washout p0091 N79-15622
- MOTOR SYSTEMS (BIOLOGY)**
 U EFFERENT NERVOUS SYSTEMS
- MOTOR VEHICLES**
 NT AUTOMOBILES
 NT TRACTORS
 NT TRUCKS
 The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving [IZF-1978-16-PR-1] p0145 N79-18588
 Impact tests on crash helmets for motor cyclists [AD-A065966] p0197 N79-24655
- MOUNTAIN INHABITANTS**
 Investigation of the content of hemoglobin and its fractions in permanent inhabitants of the Tien Shan and Pamir p0188 A79-35124
 Oxygen affinity of blood in altitude Sherpas p0268 A79-47854
- MOVEMENT**
 U MOTION
- MOVING TARGET INDICATORS**
 Line criteria in target acquisition with television --- visibility of target image on TV screen p0068 A79-18997
 Visual cues in manual tracking of simulated targets p0103 A79-23792
 Estimation of aircraft target motion using pattern recognition orientation measurements p0177 N79-21764

- STI RADAR**
U MOVING TARGET INDICATORS
- MULTISPECTRAL PHOTOGRAPHY**
 Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis
 [NASA-CR-162103] p0279 N79-30922
- MULTIVARIATE STATISTICAL ANALYSIS**
NT DISCRETE FUNCTIONS
WT REGRESSION ANALYSIS
 The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement
 p0028 N79-11703
- Mult-attribute subjective evaluations of manual tracking tasks vs. objective performance of the human operator**
 p0116 N79-17486
- The selection of air traffic control specialists:
 Two studies demonstrating methods to insure an accurate validity coefficient for selection devices
 [AD-A068581] p0281 N79-30932
- MUSCLES**
NT MYOCARDIUM
 Phosphorylase a in human skeletal muscle during exercise and electrical stimulation
 p0067 A79-18962
- The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/
 p0208 A79-38150
- Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936
 p0274 A79-49992
- Determination of muscle mass changes in legs from K-40 measurements
 p0274 A79-49997
- Tremometry as a method of evaluating the functional state of the nervous system of a pilot
 p0300 A79-53065
- COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers
 p0024 N79-11679
- Calcium regulation in smooth muscle: Isolation and characterization of the myosin light chain kinase
 p0024 N79-11680
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite
 p0108 N79-16518
- Effects of space flight factors on electrolyte composition of rat skeletal muscles
 p0109 N79-16530
- Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite
 p0311 N79-33795
- MUSCULAR FATIGUE**
 A simple technique for evaluation of vitality loss in aging mice, by testing their muscular coordination and vigor
 p0274 A79-50205
- Frequency and amplitude analysis of the EMG during exercise on the bicycle ergometer
 p0297 A79-52022
- Electrophysiological correlates of local muscular fatigue effects upon human visual reaction time
 p0297 A79-52025
- Operator performance and localized muscle fatigue in a simulated space vehicle control
 p0214 N79-24653
- A stochastic model of muscle fatigue in frequent strenuous work cycles
 p0261 N79-29789
- MUSCULAR FUNCTION**
 Models for automated motor skills training --- computer controlled adaptive instruction
 p0035 A79-13182
- A composite view of task performance in hot environments
 p0036 A79-13186
- Special tests for astronaut selection - Muscular exercise test
 p0047 A79-15492
- Temperature effect of muscular work in the white rat during hypoxia
 p0097 A79-20654
- Mechanical efficiency of fast- and slow-twitch muscle fibers in man during cycling
 p0268 A79-47852
- Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats
 p0268 A79-47856
- Mechanism for the regulation of human posture during movements of the foot
 p0276 A79-50651
- Characteristics of somatic and autonomic regulation during work of small muscle groups as a function of loading regime
 p0276 A79-50653
- Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle
 p0296 A79-51111
- The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia
 p0296 A79-51116
- Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76]
 p0301 A79-53285
- Carbohydrate metabolism of the stimulated diaphragm muscle
 p0050 N79-12689
- Nonshivering thermogenesis in normal and dystrophic muscle
 p0054 N79-13680
- Changes in properties of rat femur as a result of crural exarticulation and hypokinesia
 p0108 N79-16522
- The pulmonary circulation: Studies on alveolar hypoxia and vascular smooth muscle metabolism
 p0195 N79-23650
- Recruitment and discharge properties of motor units in human brachial biceps and adductor pollicis during isometric contractions
 p0216 N79-25708
- Multifunctional transducer [NASA-CASE-NPO-14329-1]
 p0219 N79-25737
- MUSCULAR STRENGTH**
 A prediction model of arm push strength in the transverse plane
 p0037 A79-13195
- Biomechanical properties of muscles and the efficiency of movement
 p0276 A79-50652
- Human muscular strength
 p0033 N79-11741
- Instrumentation and techniques for the measurement of muscular strength and endurance in the human body [AD-A061023]
 p0155 N79-19681
- Isometric strength testing in selecting workers for strenuous jobs
 p0262 N79-29790
- MUSCULAR TONUS**
 Isokinetic exercise: A review of the literature [NASA-CR-151841]
 p0051 N79-12695
- MUSCULOSKELETAL SYSTEM**
- NT BONES
 NT CARTILAGE
 NT CEREBRUM
 NT COLLAGENS
 NT CONNECTIVE TISSUE
 NT FEMUR
 NT JOINTS (ANATOMY)
 NT KNEE (ANATOMY)
 NT TIBIA
 NT VERTEBRAE
 NT VERTEBRAL COLUMN
 NT WRIST
 Effects of vestibular stimuli on the electrical activity of muscles
 p0187 A79-35121
- The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/
 p0208 A79-38150
- Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782
 p0230 A79-41714
- Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats
 p0268 A79-47856
- The inertial properties of the body and its segments
 p0033 N79-11738

MUTATIONS

- Changes in amount and composition of phospholipids in rat skeletal muscle microsomal fraction under the influence of a flight aboard the Kosmos-690 biosatellite p0108 N79-16519
- Effects of hypodynamic simulations on the skeletal system of monkeys p0146 N79-19021
- The influence of exercise on bone atrophy [NASA-CR-160196] p0216 N79-25714
- The combined effect of space flight factors and radiation on rat skeletal muscles p0244 N79-27821
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
- The validation of biodynamic models p0286 N79-31914
- MUTATIONS**
- Possible contribution of transferable exogenous DNA in prokaryotic evolution p0205 A79-37971
- The point mutation process in proteins p0205 A79-37972
- Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei --- for mutational change in protein evolution p0253 A79-45640
- Effect of accelerations combined with radiation on occurrence of gene mutations in the drosophila p0016 N79-10720
- Mutagenic components of alternate energy sources [CONF-780636-8] p0280 N79-30923
- MYOCARDIAL INFARCTION**
- ST isopotential precordial surface maps in patients with acute myocardial infarction p0098 A79-21245
- Electrocardiographic abnormalities in Air Force personnel p0182 A79-33191
- Myocardial infarction in young men p0188 A79-35137
- A catheter flow probe for measurement of left ventricular source parameters p0274 A79-50108
- Computerized positron emission tomography /PET/ for the assessment of myocardial integrity p0293 A79-51031
- The effect of moderate hypothermia on the circulatory and myocardial consequences of acute coronary ligation in dogs p0049 N79-12683
- MYOCARDIUM**
- Single frequency RF powered ECG telemetry system p0131 A79-26074
- Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylyl cyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle p0296 A79-51111
- Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits p0108 N79-16523
- A correlation of the effects of cationic uncouplers on intact cardiac muscle and on calcium bound to isolated cardiac muscle plasma membranes p0111 N79-16540
- A study of some of the factors influencing the left ventricular diastolic pressure-volume relationship and myocardial metabolism p0154 N79-19674

SUBJECT INDEX

- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia p0194 N79-23644
- Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes p0307 N79-32825
- MYOELECTRIC POTENTIALS**
- Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
- MYOELECTRICITY**
- NT MYOELECTRIC POTENTIALS
- N**
- NASA PROGRAMS**
- NT ASSESSE PROGRAM
- NT SEASAT PROGRAM
- NT SKYLAB PROGRAM
- NT TERMINAL CONFIGURED VEHICLE PROGRAM
- NT VIKING MARS PROGRAM
- Firefighters Integrated Response Equipment System [ASME PAPER 78-ENAS-39] p0009 A79-12586
- NASA flight management research p0040 A79-13218
- The joint US-USSR biological satellite program p0182 A79-33050
- The role of physical examinations and education in prospective medicine p0026 N79-11694
- Publications of the planetary biology program for 1977: A special bibliography [NASA-TM-80338] p0179 N79-21777
- Urine collection apparatus [NASA-CASE-MSC-18381-1] p0195 N79-23657
- NATURAL LANGUAGE (COMPUTERS)**
- Attempt to describe a class of man-machine dialogue systems based on a natural language p0251 A79-44057
- NAUSEA**
- Vestibular Function Research (VFR) experiment. Phase B: Design definition study [NASA-CR-152207] p0024 N79-11683
- NAVIER-STOKES EQUATION**
- Application of numerical methods to physiological flows --- Navier-stokes equation, prosthetic heart valves and vasoconstriction p0146 N79-18945
- NAVIGATION**
- NT AREA NAVIGATION
- NT DIGITAL NAVIGATION
- Geographical disorientation and flight safety p0291 N79-31951
- NAVIGATION AIDS**
- NT LIGHT AIRBORNE MULTIPURPOSE SYSTEM RNAV procedural turn anticipation techniques experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi offset tracking procedures [AD-A060501] p0085 N79-15583
- NAVIGATORS**
- Visual workload of the copilot/navigator during terrain flight p0038 A79-13206
- Effects on A-6E bombardier/navigator flight training with the introduction of device 2F114, A-6E weapon system trainer [AD-A068607] p0289 N79-31933
- NAVY**
- Naval aviation training - Perspective and prospects [SAE PAPER 781004] p0130 A79-25886
- NEARSHORE WATER**
- NT COASTAL WATER
- NECK (ANATOMY)**
- Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0234 A79-43205
- Analysis of naval aviation head and neck injuries (1969-1978) [AD-A057657] p0026 N79-11689
- Multibody dynamics including translation between the bodies, with application to head-neck systems [AD-A062114] p0174 N79-20747
- A discrete parameter model of the head and neck with neuromuscular feedback p0211 N79-24627
- Multiaxis dynamic response of the human head and neck to impact acceleration p0284 N79-31906
- NEGATIVE FEEDBACK**
- NT SENSORY FEEDBACK

- NEON**
NT NEON ISOTOPES
- NEON ISOTOPES**
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study
p0252 A79-44798
- NEON 19**
U NEON ISOTOPES
- NEOPLASMS**
NT CANCER
- NERVES**
Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His --- neural activity effects on heart block
p0103 A79-23955
- Estimation of nerve-bundle conduction
p0154 N79-19672
- Functional connections of the central auditory nervous system: Thalamocortical corticothalamic and corticotectal connections of the AI, AII and AAF auditory cortical fields
p0246 N79-27839
- Effects of acute noise traumata on whole-nerve and single-unit activity [IZF-1978-23]
p0308 N79-32829
- NERVOUS SYSTEM**
NT AXONS
NT BRAIN
NT CENTRAL NERVOUS SYSTEM
NT CEREBRAL CORTEX
NT CEREBRUM
NT EFFERENT NERVOUS SYSTEMS
NT GANGLIA
NT HIPPOCAMPUS
NT NERVES
NT NEURONS
NT SPINAL CORD
NT SPINE
NT SYMPATHETIC NERVOUS SYSTEM
NT SYNAPSES
Elements of the theory of biological analyzers --- Russian book
p0132 A79-26450
- The problem of optimally fast response as solved by the nerve cell
p0166 A79-31179
- Tremometry as a method of evaluating the functional state of the nervous system of a pilot
p0300 A79-53065
- Effect of different doses of centimeter-band electromagnetic oscillations of biochemiluminescence of central nervous system and liver tissues
p0172 N79-20738
- Multi-channel stimulation of peripheral nerve trunks
p0176 N79-21753
- Functional connections of the central auditory nervous system: Thalamocortical corticothalamic and corticotectal connections of the AI, AII and AAF auditory cortical fields
p0246 N79-27839
- NETWORK ANALYSIS**
Modeling and analysis using SAINT - A combined discrete/continuous network simulation language --- Systems Analysis of Integrated Network of Tasks for RRV
p0004 A79-11480
- Combined discrete network-continuous control modeling of man-machine systems
p0260 N79-28879
- NEUROLOGY**
Vision
p0095 N79-15894
- NEUROMUSCULAR TRANSMISSION**
Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782
p0101 A79-23468
- A simple technique for evaluation of vitality loss in aging mice, by testing their muscular coordination and vigor
p0274 A79-50205
- Directional errors of movements and their correction in a discrete tracking task --- pilot reaction time and sensorimotor performance
p0086 N79-15589
- A discrete parameter model of the head and neck with neuromuscular feedback**
p0211 N79-24627
- NEURON TRANSMISSION**
U BIOELECTRICITY
- NEURONS**
The problem of optimally fast response as solved by the nerve cell
p0166 A79-31179
- Auditory analysis of complex sound: Electrophysiological investigations --- Russian book
p0167 A79-31899
- Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves
p0188 A79-35918
- The effect of thermal stimulation of the skin on activity of lateral crescent interneurons of lumbar segments
p0208 A79-38147
- Origin of neuron responses of the superior colliculus to light flashes
p0233 A79-42294
- Mathematical model of the respiration rhythm generation process
p0254 A79-46268
- The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission [AD-A063856]
p0213 N79-24647
- Biological effects of laser irradiation on nerve cells
p0247 N79-27840
- NEUROPHYSIOLOGY**
The sensory systems --- Russian book on neurophysiology and biophysics research
p0042 A79-14369
- Intrinsic noise, threshold sensitivity, and adaptation of the retina
p0043 A79-14373
- Neurophysiology of thermal reception
p0043 A79-14374
- The trajectories of saccadic eye movements
p0065 A79-18250
- Elements of the theory of biological analyzers --- Russian book
p0132 A79-26450
- Piecewise Fourier analysis of images and the role of occipital, temporal and parietal cortex in visual perception
p0160 A79-29248
- Neural regulation of coronary circulation
p0208 A79-38148
- The role of the neurohormone system of the hypothalamus in physiology and pathology --- Russian book
p0251 A79-43835
- Central and reflex mechanisms of controlling movements --- Russian book
p0251 A79-43950
- The visual cortex of normal and deprived monkeys
p0296 A79-51174
- Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite
p0299 A79-52475
- Neurophysiological bases of vestibular conditioning
p0013 N79-10699
- Vestibular Function Research (VFR) experiment. Phase B: Design definition study [NASA-CR-152207]
p0024 N79-11683
- Evidence for the neural regulation of respiration During low intensity exercise in man
p0184 N79-18578
- A description of the recent neuropsychological selection of pilots for land forces light aircraft
p0151 N79-19633
- Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals
p0169 N79-20713
- Experimental and theoretical investigations concerning a frequency filter behavior of the human retina regarding electric pulse currents [NASA-TM-75372]
p0314 N79-33822
- NEUROSCIENCE**
U NEUROLOGY
- NEUTRAL PARTICLES**
NT FAST NEUTRONS

NEUTRON SPECTRA

Personnel neutron monitoring in space
[NASA-CR-151865] p0111 N79-16541

NEUTRONS**NT FAST NEUTRONS****NICOTINE**

Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits

p0098 A79-21246

NIGHT FLIGHTS (AIRCRAFT)

Helicopter night operations - Feasibility and impact on the overall system --- helmet mounted FLIR detectors and image intensifier goggles

p0048 A79-16235

Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying

[AD-A054888] p0055 N79-13692

Night rescue operation procedure over sea with bell VH-1D helicopters

p0148 N79-19609

Observation of night shipboard helicopter operations from a 210 foot US Coast Guard cutter

p0151 N79-19637

Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight

p0152 N79-19649

Training requirements for helicopter operation with night vision goggles

p0153 N79-19650

NIGHT VISION

Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter

p0063 A79-18215

NITRATES**NT ORGANIC NITRATES**

Enhancing biological production of ammonia from atmospheric nitrogen and soil nitrate

[PB-286515/2] p0083 N79-15571

NITROBACTER

Nitrogen fixation with photosynthetic marine microorganisms

[PB-287590/4] p0120 N79-17525

NITROGEN

Effect of decompression per se on nitrogen elimination

p0067 A79-18964

Synthesis of amino acids under primitive earth conditions in the presence of clay

p0203 A79-37930

Nitrogen fixation with photosynthetic marine microorganisms

[PB-286000/5] p0083 N79-15570

Enhancing biological production of ammonia from atmospheric nitrogen and soil nitrate

[PB-286515/2] p0083 N79-15571

Metabolism of hydrazine

[AD-A062251] p0169 N79-20716

The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission

[AD-A063856] p0213 N79-24647

NITROGEN COMPOUNDS**NT AMMONIA****NT CYANAMIDES****NT HYDROCYANIC ACID****NT HYOSCINE****NT NICOTINE****NT NITRATES****NT NITROGEN DIOXIDE****NT NITROGEN OXIDES****NT NITROGEN TETROXIDE****NT ORGANIC NITRATES****NT TRYPTOPHAN****NT UREAS****NITROGEN DIOXIDE**

Developmental and hematological responses to low level continuous exposure of nitrogen dioxide in mice

p0147 N79-19026

NITROGEN METABOLISM

Nitrogen fixation with photosynthetic marine microorganisms

[PB-287590/4] p0120 N79-17525

NITROGEN OXIDES**NT NITROGEN DIOXIDE****NT NITROGEN TETROXIDE**

Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function

[PB-291595/7] p0177 N79-21763

NITROGEN TETROXIDE

Advanced life support equipment for nitrogen tetroxide environments

p0169 N79-20432

NOBLE GASES**U RARE GASES****NOISE (SOUND)****NT AIRCRAFT NOISE****NT SONIC BOOMS**

The influence of mechanical vibration and noise on the peripheral blood circulation at skin level

[RAE-LIB-TRANS-1980] p0084 N79-15578

Overall loudness of steady sounds according to theory and experiment

[NASA-RP-1001] N79-25753

Two approaches to category representation in aural classification

[AD-A066705] N79-25754

Classification of amplitude-modulated noise patterns with extended practice

[AD-A066703] p0222 N79-25756

The loudness of tinnitus

p0246 N79-27837

NOISE ATTENUATION**U NOISE REDUCTION****NOISE ELIMINATION****U NOISE REDUCTION****NOISE GENERATORS**

Monitoring the state of the human airways by analysis of respiratory sound

[IAF PAPER 78-66] p0003 A79-11227

NOISE HAZARDS**U NOISE (SOUND)****NOISE INJURIES**

Effects of acute noise traumata on whole-nerve and single-unit activity

[IZP-1978-23] p0308 N79-32829

NOISE INTENSITY

The effective acoustic environment of helicopter crewmen

p0152 N79-19645

NOISE MEASUREMENT

Responses of teachers to aircraft noise

p0103 A79-23881

Temporary threshold shift from transportation noise

p0254 A79-46286

The loudness of tinnitus

p0246 N79-27837

NOISE POLLUTION

Conjoint effect of physical stress and noise stress on information processing performance and cardiac response

p0161 A79-29715

Temporary threshold shift from transportation noise

p0254 A79-46286

The influence of intermittent aircraft noise on sleep. I

p0255 A79-46599

A real-world assessment of noise exposure

[AD-A061692] p0155 N79-19680

Tentative evaluation of annoyance caused by noise from gunfire

[IZP-1978-21] p0310 N79-32843

NOISE REDUCTION

In-flight measures of stress reduction due to wearing expandable foam earplugs

p0273 A79-49986

A trade-off analysis design tool: Aircraft interior noise-motion/passenger satisfaction model

p0112 N79-16549

NOISE SUPPRESSORS**U NOISE REDUCTION****NOISE TOLERANCE**

Startle reactions to simulated sonic booms - Influence of habituation, boom level and background noise

p0097 A79-20502

Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection --- German book

p0162 A79-29763

Sources of noise stress on flying personnel

p0227 A79-41169

Effects of vibration and noise on some indices of efficiency of MI-4 helicopter crews

SUBJECT INDEX

NUTRIENTS

- A model for predicting human discomfort response to combined noise and vertical vibration p0015 N79-10711
 Human discomfort response to noise combined with vertical vibration [NASA-TP-1374] p0156 N79-19685
 Human discomfort response to noise combined with vertical vibration p0190 N79-22761
 Stress and fatigue in the driving environment --- physiological and psychological effects of heat and noise experienced inside automobiles p0211 N79-24629
- NONADIABATIC PROCESSES**
 U HEAT TRANSFER
NONDESTRUCTIVE TESTS
 Noninvasive techniques in the evaluation of the peripheral circulation p0154 N79-19675
- NONFLAMMABLE MATERIALS**
 Aluminized firemen's (fire proximity) handwear: Redesign of experimental prototype [AD-A069895] p0290 N79-31940
- NONLINEAR FILTERS**
 Investigation of nonlinear motion simulator washout schemes p0091 N79-15624
 Study of the use of a nonlinear, rate limited, filter on pilot control signals p0119 N79-17515
- NONLINEAR OPTICS**
 Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
 Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
- NONPARAMETRIC STATISTICS**
 Estimating percentiles of nonnormal anthropometric populations - Final report p0065 A79-18226
 Nonparametric measures of sensory efficiency for sustained monitoring tasks p0161 A79-29719
- NORADRENALINE**
 Norepinephrine action on smooth muscle cells of coronary arteries p0208 A79-38149
- NOREPINEPHRINE**
 Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia p0097 A79-20621
 Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
- NORMAL DENSITY FUNCTIONS**
 Estimation of the operating characteristics of item response categories, 3: The normal approach method and the Pearson system [AD-A056747] p0145 N79-18587
- NORMAL DISTRIBUTIONS**
 U NORMAL DENSITY FUNCTIONS
- NORTH CAROLINA**
 Bacteria in a North Carolina salt marsh. Standing crop and importance in the decomposition of Spartina alterniflora [PB-288816/2] p0153 N79-19668
- NORTHERN HEMISPHERE**
 NT ARCTIC REGIONS
- NORTHROP AIRCRAFT**
 NT F-18 AIRCRAFT
- NOXIOUS MATERIALS**
 U CONTAMINANTS
- NUCLEAR ELECTRIC POWER GENERATION**
 NT NUCLEAR POWER PLANTS
- NUCLEAR ENERGY**
 Effects on populations of exposure to low levels of ionizing radiation: Implications for nuclear energy and medical radiation [LBL-9084] p0316 N79-33833
- NUCLEAR PARTICLES**
 NT BETA PARTICLES
- NUCLEAR POWER PLANTS**
 Results of benthic studies at Calvert Cliffs [PB-294261/3] p0261 N79-29788
- NUCLEAR RADIATION**
 NT BETA PARTICLES
 NT FAST NEUTRONS
 NT GAMMA RAYS
- NUCLEAR SHIELDING**
 U RADIATION SHIELDING
- NUCLEI**
 Effects of gravity on contractile proteins [NASA-CR-160303] p0279 N79-30913
- NUCLEIC ACIDS**
 NT DEOXYRIBONUCLEIC ACID
 NT RIBONUCLEIC ACIDS
 Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425
 Interaction between inositol hexaphosphate and carbobenzoyl peptide - A model for nucleic acid - Nonhistone chromosomal protein interaction p0100 A79-22082
 An approach to the origin of self-replicating system. I - Intermolecular interactions p0204 A79-37948
- NUCLEOGENESIS**
 The study of the origin of life - Results and prospects p0206 A79-37981
- The origin of the protein synthesis mechanism p0207 A79-37986
- Evolution in open systems - Acquisition and conservation of information in bioids p0207 A79-37987
- NUCLEOSIDES**
 NT ADENOSINES
 Microbial transformation of nucleosides [NASA-CR-158696] p0197 N79-25704
- NUCLEOTIDES**
 NT ADENOSINES
 NT POLYNUCLEOTIDES
 The augmentation algorithm and molecular phylogenetic trees p0070 A79-20267
 Speculations of the evolution of the genetic code. II p0099 A79-22080
 Cyclic nucleotides and adaptation of the organism --- Russian Book p0133 A79-26500
 Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide p0162 A79-29938
 Nucleotide-binding site data and the origin of the genetic code p0206 A79-37974
- Are evolutionary rates really variable --- in vertebrate protein chemistry p0232 A79-42273
- Goodman et al.'s method for augmenting the number of nucleotide substitutions p0253 A79-45639
- Augmentation algorithm - A reply to Holmquist --- for nucleotide substitutions p0253 A79-45644
- NUCLIDES**
 NT AMERICIUM 241
 NT CARBON 14
 NT CHROMIUM ISOTOPES
 NT NEON ISOTOPES
 NT POTASSIUM 40
 NT SODIUM ISOTOPES
 NT SODIUM 22
 NT TRITIUM
- NUMERICAL ANALYSIS**
 NT ERROR ANALYSIS
 NT MONTE CARLO METHOD
 Numerical studies of absorption of electro-magnetic energy by man p0110 N79-16538
- NUMERICAL CONTROL**
 Advanced teleoperators --- remote manipulation system p0187 A79-34982
 Robotic vision --- process control applications p0187 A79-34984
- Pilot decision making in a computer-aided flight management situation p0093 N79-15633
- NUTRIENTS**
 Algal growth under multiple nutrient limiting conditions p0013 N79-10692

Mechanisms of deterioration of nutrients --- improved quality of freeze-dried foods [NASA-CR-160 128] p0156 N79-19686

NUTRITION

Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118

A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4] p0059 N79-13719

A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720

Orthomolecular enhancement of human development p0095 N79-15895

NUTRITIONAL REQUIREMENTS

NT CALORIC REQUIREMENTS

Exercise performance and hemodynamics during dietary potassium depletion in dogs p0067 A79-18959

NYSTAGMUS

NT VESTIBULAR NYSTAGMUS

A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples p0160 A79-28993

Changes in optokinetic, postoptokinetic, and reverse postoptokinetic nystagmus after bilateral labyrinthectomy p0255 A79-46499

Pursuit after-nystagmus p0271 A79-49484

A study of the effects of six light conditions on caloric induced nystagmus p0195 N79-23652

O

OBESEITY

Obesity and flying fitness p0182 A79-33188

OBSERVATION

NT VISUAL OBSERVATION

OCEAN SURFACE

The application of remote sensors to a model for fish mapping [INPE-1379-PE/176] p0071 N79-14712

Minimum sea surface temperatures and associated survival times [AD-A070162] p0315 N79-33824

OCEANS

Human/computer control of undersea teleoperators p0089 N79-15612

OCULOGRAVIC ILLUSIONS

Oculogravie illusion in response to straight-ahead acceleration of a CF-104 aircraft p0164 A79-30660

OCULOMETERS

Flight management research utilizing an oculometer --- pilot scanning behavior during simulated approach and landing p0001 A79-10389

OCULOMOTOR NERVES

Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218

Oculomotor factors in visual perceptual response efficiency p0209 A79-38361

The effect of expectations on slow oculomotor control. I - Periodic target steps. II - Single target displacements p0225 A79-40185

Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187

Texture contours can facilitate stereopsis by initiating vergence eye movements p0270 A79-48816

Forms of oculomotor activity under conditions of positive visual feedback p0276 A79-50657

ON-LINE PROGRAMMING

Biomedical data validation through an on-line computer system [PB-285249/9] p0057 N79-13700

ONBOARD COMPUTERS

U AIRBORNE/SPACEBORNE COMPUTERS

ONBOARD EQUIPMENT

NT AIRBORNE EQUIPMENT

NT AIRBORNE/SPACEBORNE COMPUTERS

NT AIRCRAFT EQUIPMENT

NT LIGHT AIRBORNE MULTIPURPOSE SYSTEM

Development of aerospace-aviation equipment described p0081 N79-14795

Multi-axis hand controller for the shuttle remote manipulator system p0117 N79-17503

US Navy development of an On-Board Oxygen Generation (OBOG) system [AD-A063958] p0197 N79-24656

OPENINGS

NT APERTURES

OPERATIONAL HAZARDS

Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176] p0099 A79-21273

OPERATIONS RESEARCH

NT MATHEMATICAL PROGRAMMING

Operational Helicopter Aviation Medicine [AGARD-CP-255] p0148 N79-19605

A methodology for conducting human factors evaluations of vehicles in operational field tests [AD-A061808] p0157 N79-19691

Methodological and operational aspects of programmed environment research [AD-A068587] p0289 N79-31936

OPERATOR PERFORMANCE

On the man's adaptation to the operator's work under stressful conditions of space flight [IAF PAPER 78-A-56] p0003 A79-11345

Psychophysiological forecasting of efficiency p0010 A79-12867

Development and transfer of timesharing skills --- for human multiple task performance p0035 A79-13184

Effects of vibration on humans - Performance decrements and limits p0035 A79-13185

A composite view of task performance in hot environments p0036 A79-13186

Seating, console and workplace design - Seated operator reach profiles p0036 A79-13188

Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189

Imagery interpreter performance in the comparison of subjective estimates of photographic image quality p0036 A79-13191

Discrimination of density and clustering on four versions of a stochastic display --- human performance of pattern recognition p0036 A79-13192

Tracking in two dimensions as a function of dimension priorities and tracking difficulty p0036 A79-13193

Lateral orientation and cerebral activation - Considerations for information display p0037 A79-13194

A prediction model of arm push strength in the transverse plane p0037 A79-13195

Synthetic aperture radar operator tactical target acquisition research p0037 A79-13202

Target acquisition in realistic terrain p0037 A79-13203

Depth perception and manual control p0038 A79-13207

The event related cortical potential as an index of task workload p0038 A79-13208

Task functional demands as factors in dual-task performance p0039 A79-13214

Observer performance using a video display --- in simulated air to ground target acquisition tasks p0039 A79-13217

Experimental designs for investigating complex human operator/machine systems

- Adaptive supervisory control of remote manipulation p0040 A79-13225
 Computer-graphic design for human performance p0046 A79-14987
 [AD-A055132] p0046 A79-15399
 Man-machine reliability - A practical engineering tool p0047 A79-15400
 Cross-validation of regression equations to predict performance in a pursuit tracking task p0064 A79-18222
 Man-terminal interaction evaluation of computer operating system command and control service concepts --- in Spacelab p0064 A79-19224
 Target-terrain classification and detection performance --- to assess aerial photos for tanks p0065 A79-18225
 Line criteria in target acquisition with television --- visibility of target image on TV screen p0068 A79-18997
 Speed and load stress as determinants of performance in a time sharing task p0068 A79-18999
 Visual target acquisition and ocular scanning performance p0069 A79-19000
 Morbidity experience of air traffic control personnel - 1967-77 p0101 A79-23466
 Army Aviation Training - Research now and then [SAE PAPER 781008] p0130 A79-25890
 Digital man-machine control systems - The effects of preview lag p0131 A79-26149
 The human operator in the control system: Linear models --- German book p0132 A79-26356
 Nonparametric model for the detection of signals observed by a human operator on a CRT screen on a noise background --- cathode-ray tube p0159 A79-28565
 Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads p0160 A79-29270
 Nonparametric measures of sensory efficiency for sustained monitoring tasks p0161 A79-29719
 A model of human decisionmaking in fault diagnosis tasks that include feedback and redundancy p0163 A79-30222
 A comparison of control modes for time-delayed remote manipulation p0163 A79-30223
 Measurement and scaling of workload in complex performance p0164 A79-30659
 Evaluation of models describing human operator control of slowly responding complex systems --- Thesis p0167 A79-31494
 Application of computer animation for dynamic display in complex energy systems --- for human operator performance improvement p0186 A79-34172
 A rationale for human operator pulsive control behavior p0186 A79-34520
 Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task p0234 A79-43204
 Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
 Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
 Human operators in adversary tracking encounters p0269 A79-48015
 An operator-aiding manipulator control system p0269 A79-48020
 Survey of human operator modeling techniques for measurement applications [AD-A058327] p0058 N79-13713
 A formal model of the adaptive and discrete control behaviors of human operators [AD-A059039] p0059 N79-13717
 Psychological aspects of the human-operator's activity while tracking [RAE-LIB-TRANS-1979] p0079 N79-14768
 Information-handling capacity of a human operator in detection of signals against a noisy background p0081 N79-14989
 The behavior of observers in detecting unbriefed targets at different aircraft speeds with side-looking radar [AD-A060908] p0085 N79-15586
 The 14th Annual Conference on Manual Control --- digital simulation of human operator dynamics [NASA-CP-2060] p0086 N79-15588
 A study of the effect of forcing function characteristics on human operator dynamics in manual control p0086 N79-15590
 Effects of uncertainty on manual tracking performance --- visual tasks p0086 N79-15592
 Modeling the human as a controller in a multitask environment p0087 N79-15595
 The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems --- sensitivity of operators versus monitors to failures p0087 N79-15596
 Closed loop models for analyzing the effects of simulator characteristics --- digital simulation of human operators p0087 N79-15598
 Petri nets as a modeling tool for discrete concurrent tasks of the human operator --- describing sequential and parallel demands on human operators p0088 N79-15600
 Human operator identification model and related computer programs [NASA-CR-152237] p0112 N79-16551
 The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator [RS-GMR-2394] p0115 N79-17484
 Multi-attribute subjective evaluations of manual tracking tasks vs. objective performance of the human operator p0116 N79-17486
 A control theoretic model of driver steering behavior p0116 N79-17491
 Modelling the human operator of slowly responding systems using linear models p0117 N79-17492
 Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions p0117 N79-17492
 Sunglasses for drivers? [IZP-1977-24] p0122 N79-17539
 The impact of a Learn-Forget-Learn (LFL) curve and learning curves on a system effectiveness model [AD-A061622] p0124 N79-17550
 An adaptive controller which displays human operator limitations for a fighter type aircraft p0177 N79-21767
 Operator performance and localized muscle fatigue in a simulated space vehicle control p0214 N79-24653
 Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
 Combined discrete network-continuous control modeling of man-machine systems p0260 N79-28879
 Visual search performance during simulated radar observation with and without a sweepline [AD-A068020] p0281 N79-30938
 The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
 Models of human operators in vision dependent tasks [NASA-CP-2103] p0317 N79-33838
 A survey of Applied Psychological Services' models of the human operator p0317 N79-33839

- Visual performance modeling in the human operator simulator p0317 N79-33840
- A brief overview of the theory and application of the optimal control model of the human operator p0317 N79-33841
- Analysis of visual estimation of system state from arbitrary displays p0317 N79-33843
- OPERATORS (PERSONNEL)**
- NT AIRCRAFT PILOTS
- NT PILOTS (PERSONNEL)
- Psychological aspects of the human-operator's activity while tracking [RAE-LIB-TRANS-1979] p0079 N79-14768
- The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
- A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
- Combined monitoring, decision and control model for the human operator in a command and control desk p0092 N79-15631
- The impact of a Learn-Forget-Learn (LFL) curve and learning curves on a system effectiveness model [AD-A061622] p0124 N79-17550
- Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730] p0282 N79-30942
- Effects on A-6E bombardier/navigator flight training with the introduction of device 2F114, A-6E weapon system trainer [AD-A068607] p0289 N79-31933
- The use of artificial signals during SONAR-watch [IZP-1978-25] p0309 N79-32837
- OPHTHALMOLOGY**
- NT EYE EXAMINATIONS
- Sensory illusions - The ophthalmologist's point of view p0255 A79-46595
- The retinal resolving power measured by laser interference fringes p0304 A79-54091
- OPTICAL ABSORPTION**
- U ELECTROMAGNETIC ABSORPTION
- U LIGHT TRANSMISSION
- OPTICAL ACTIVITY**
- A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution p0204 A79-37957
- Mirror symmetry breaking in biochemical evolution p0254 A79-46462
- OPTICAL DATA PROCESSING**
- NT SCENE ANALYSIS
- OPTICAL EQUIPMENT**
- NT ENDOSCOPES
- NT EYEPieces
- NT LASER DOPPLER VELOCIMETERS
- NT OPTICAL MEASURING INSTRUMENTS
- NT PHOTOMETERS
- NT PRISMS
- NT STROBOSCOPES
- NT TELEVISION CAMERAS
- Water system virus detection [NASA-CASE-MSC-16098-1] p0013 N79-10693
- Apparatus for endoscopic examination [NASA-CASE-NPO-14092-1] p0155 N79-19678
- OPTICAL ILLUSION**
- The common occurrence of errors of perceived distance p0100 A79-22775
- Object, illusion and frame of reference as design criteria for computer-generated displays p0137 A79-28157
- The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line p0228 A79-41422
- Sensory illusions - The ophthalmologist's point of view p0255 A79-46595
- OPTICAL IMAGES**
- U IMAGES
- OPTICAL MASER MODULATION**
- U LIGHT MODULATION
- OPTICAL LASERS**
- U LASERS
- OPTICAL MEASUREMENT**
- NT PHOTOMETRY
- NT SPECTROPHOTOMETRY
- OPTICAL MEASURING INSTRUMENTS**
- NT OCULOMETERS
- NT PHOTOMETERS
- Lightweight helmet-mounted eye movement measurement system p0303 A79-53516
- OPTICAL MODULATION**
- U LIGHT MODULATION
- OPTICAL PROPERTIES**
- NT BRIGHTNESS
- NT COLOR
- The optical properties of smoke-protective devices [FAA-AM-78-41] p0242 N79-26784
- OPTICAL SENSORS**
- U OPTICAL MEASURING INSTRUMENTS
- OPTICAL SPECTRUM**
- U LIGHT (VISIBLE RADIATION)
- OPTICAL TRACKING**
- On the relationship between pilot rating and pilot dynamics. I - An experimental approach p0066 A79-18474
- Visual cues in manual tracking of simulated targets p0103 A79-23792
- Pursuit after-nystagmus p0271 A79-49484
- OPTIMAL CONTROL**
- Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller [DGLO PAPER 78-149] p0042 A79-14094
- Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery p0046 A79-14969
- The problem of optimally fast response as solved by the nerve cell p0166 A79-31179
- Evaluation of models describing human operator control of slowly responding complex systems --- Thesis p0167 A79-31494
- Modeling human tracking performance in a high G-stress environment p0269 A79-48012
- Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
- Human operators in adversary tracking encounters p0269 A79-48015
- An extension of the quickened display for manual control. p0086 N79-15591
- A comparison of motor submodels in the optimal control model p0087 N79-15597
- Proceedings, 13th Annual Conference on Manual Control [NASA-CR-158107] p0114 N79-17475
- The effects of deviate internal representations in the optimal model of the human operator p0114 N79-17477
- An approach to the multi-axis problem in manual control --- optimal pilot model p0115 N79-17482
- Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- Combined discrete network-continuous control modeling of man-machine systems p0260 N79-28879
- Performance and workload analysis of inflight helicopter missions [NLR-MB-77013-U] p0308 N79-32834
- A brief overview of the theory and application of the optimal control model of the human operator p0317 N79-33841
- OPTIMIZATION**
- NT OPTIMAL CONTROL
- NT TRAJECTORY OPTIMIZATION
- Pilot-optimal augmentation of the air-to-air tracking task [AIAA 79-1747] p0252 A79-45388

- Adaptive optimization of exchange of gases in plants in a sealed phytotron p0313 N79-33806
- OPTIMUM CONTROL**
U OPTIMAL CONTROL
- ORBITAL ASSEMBLY**
ECLSS definition for a low cost space construction base --- Environmental Control Life Support Systems [ASME PAPER 78-ENAS-15] p0007 A79-12564
- Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176] p0099 A79-21273
- Manual alignment of structural components in space [AIAA PAPER 79-0535] p0129 A79-25855
- ORBITAL SPACE STATIONS**
NT LONG DURATION EXPOSURE FACILITY
NT ORBITAL WORKSHOPS
NT SALYUT SPACE STATION
NT SKYLAB 3
Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53486
- ORBITAL WORKSHOPS**
ECLSS definition for a low cost space construction base --- Environmental Control Life Support Systems [ASME PAPER 78-ENAS-15] p0007 A79-12564
- ORBITS**
NT SATELLITE ORBITS
- ORGANIC CHEMISTRY**
Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419
- ORGANIC COMPOUNDS**
NT ACETIC ACID
NT ADENOSINES
NT AMINO ACIDS
NT FATS
NT FATTY ACIDS
NT GLUTAMINE
NT LEUCINE
NT NUCLOTIDES
NT ORGANIC SULFUR COMPOUNDS
NT PEPTIDES
NT POLYNUCLEOTIDES
NT POLYPEPTIDES
NT PROTOPROTEINS
NT SEROTONIN
NT TRYPTOPHAN
On the reality of extraterrestrial biogenesis [IAF PAPER 78-A-51] p0003 A79-11344
- Synthesis of organic compounds from carbon monoxide and water by UV photolysis p0099 A79-22077
- Prebiotic condensation reactions using cyanamide p0203 A79-37932
- The study of the origin of life - Results and prospects p0206 A79-37981
- Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
- Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988] p0081 A79-14782
- The utilisation of organic compounds by purple bacteria in the presence of light [BLL-RTS-11213] p0141 A79-18556
- Clozapine metabolism in humans [BLL-RTS-10902] p0142 A79-18567
- ORGANIC NITRATES**
Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution p0205 A79-37968
- ORGANIC PHOSPHORUS COMPOUNDS**
Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4] p0051 N79-12698
- Percutaneous absorption of toxic agents. Part 2: The nerve bases and some other toxic organophosphates. A survey of the literature. [PML-1978-9] p0123 N79-17542
- ORGANIC SULFUR COMPOUNDS**
Incorporation of sulphur in chemical evolution p0203 A79-37938
- ORGANIC WASTES (FUEL CONVERSION)**
Emergence of biotechnology [TID-28983] p0211 N79-24626
- ORGANISMS**
The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
- ORGANIZATIONS**
NT EUROPEAN SPACE AGENCY
- ORGANOMETALLIC COMPOUNDS**
NT CHLOROPHYLLS
NT HEMOGLOBIN
NT OXYHEMOGLOBIN
Metal porphyrins in pre-Cambrian deposits as a probable evidence for early photosynthesis p0165 A79-30695
- ORGANS**
NT BLADDER
NT KIDNEYS
NT LIVER
NT LUNGS
NT PITUITARY GLAND
NT STOMACH
NT TESTES
New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1] p0018 N79-10735
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- Effects of space flight on course of radiation lesions in rat lymphoid organs p0107 N79-16516
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- ORIENTATION**
Vertical orientation of man during 5-day antiorthostatic hypokinesia (-4, -8 and -12 deg head down position) p0313 N79-33810
- ORTHOSTATIC TOLERANCE**
Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test p0047 A79-15490
- Cardiac and vascular components of the systemic response of blood circulation to orthostatic influence p0097 A79-20651
- Hemodynamic indices under orthostatic and vestibular effects p0098 A79-20692
- Self-regulation of cerebral circulation under orthostatic influences p0221 A79-36098
- Blood pressure variability of the individual in orthostatic testing p0265 A79-47328
- A new application of LBNP to measure orthostatic tolerance before and after 0-G simulation /water immersion/ [IAF PAPER 79-87] p0302 A79-53290
- Compensatory reactions of the kidneys to orthostatic factors p0015 N79-10708
- Distinguishing borderline hypertensives from normotensives: A clinical study of 300 airmen p0027 N79-11699
- Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720
- Effects of hyperhydration on human endurance of orthostatic and LBNP tests p0072 N79-14721
- Study report on combining diagnostic and therapeutic considerations with subsystem and whole-body simulation [NASA-CR-160231] p0213 N79-24644
- Development of an hypothesis for simulating anti-orthostatic bed rest [NASA-CR-160200] p0217 N79-25717
- Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- Evaluation of circulatory reactions in the head to antiorthostatic position p0245 N79-27832

OSCILLATORS

SUBJECT INDEX

- Control of vertical position after flights aboard the Salyut-4 orbital station p0311 N79-33793
- Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
- OSCILLATORS**
- NT CATHODE RAY TUBES
Evolution of enzyme function - The coupled oscillator theory p0205 A79-37970
- OSMOSIS**
- Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma p0017 N79-10721
- Effects of space flight factors on electrolyte composition of rat skeletal muscles p0109 N79-16530
- OSMOTIC PRESSURE**
- U OSMOSIS
- OSTEOPOROSIS**
- Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666
- OTOLARYNGOLOGY**
- Laryngeal problems in space travel p0011 A79-12870
- Aeromedical aspects of otolaryngology p0136 A79-27562
- Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
- OTOLITH ORGANS**
- Biped stability considerations with vestibular models p0066 A79-18287
- OTOLOGY**
- Cases of probable Aero Otitis interna p0183 A79-33194
- OUTER PLANET SPACECRAFT**
- U OUTER PLANETS EXPLORERS
- OUTER PLANETS EXPLORERS
Planetary protection guidelines for Outer Planet missions p0005 A79-12511
- OUTPUT**
- NT LASER OUTPUTS
- OXIDATION**
- NT PHOTOOXIDATION
Cardiovascular studies of reducing and oxidizing agents p0049 N79-12682
- State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field p0075 N79-14742
- Evaluation of oxidizability of air in closed areas p0313 N79-33808
- OXIDATION-REDUCTION REACTIONS**
- Dependence of the functional activity of liver mitochondria on microwave radiation --- oxidative phosphorylation p0075 N79-14741
- OXIDES**
- NT CARBON DIOXIDE
- NT CARBON MONOXIDE
- NT CARBON SUBOXIDES
- NT NITROGEN DIOXIDE
- NT NITROGEN OXIDES
- NT NITROGEN TETROXIDE
- NT SULFUR DIOXIDES
- NT SULFUR OXIDES
- OXYGEN**
- NT HIGH PRESSURE OXYGEN
- NT OZONE
Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- Morphological and biochemical effects of oxygen toxicity [AD-A056778] p0018 N79-10734
- The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
- Environmental test and evaluation of a molecular sieve on-board oxygen generation system [AD-A061531] p0125 N79-17559
- Helium-oxygen mixture and the organism hyperbaric aspect
- Toxicity of oxygen mixed with helium p0243 N79-27818
- Toxicity of oxygen mixed with helium p0245 N79-27829
- OXYGEN BREATHING**
- Reproductive adaptation in *Drosophila* exposed to oxygen-enriched atmospheres p0164 A79-30657
- Glucose metabolism in rat lung during exposure to hyperbaric O₂ p0221 A79-36047
- OXYGEN CONSUMPTION**
- Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
- Effects of ozone inhalation on work performance and maximal oxygen uptake p0133 A79-27103
- Physical performance and peak aerobic power at different body temperatures p0221 A79-36046
- Circulatory response to arterial hyperoxia p0221 A79-36048
- Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- The effect of normobaric hyperoxia on brain and liver tissue respiration in albino rats with different resistances to hypoxia p0296 A79-51113
- Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
- Frequency and amplitude analysis of the EMG during exercise on the bicycle ergometer p0297 A79-52022
- Time course of O₂-pulse during various tests of aerobic power p0297 A79-52024
- Metabolic responses of ponies to treadmill exercise in hyperoxia p0049 N79-12681
- Computer program for calculation of oxygen uptake [NASA-TM-78585] p0174 N79-21741
- Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes p0307 N79-32825
- OXYGEN DEFICIENCY**
- U HYPOXIA
- OXYGEN MASKS
Oral/nasal breathing systems in the year 2000 p0183 A79-33621
- The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use p0184 A79-33638
- Improved headgear for fixed wing Navy airmen p0184 A79-33641
- Oxygen equipment and rapid decompression studies [AD-A070285] p0289 N79-31937
- OXYGEN METABOLISM**
- Mechanisms of the effect of oxygen toxicity on the energy metabolism p0160 A79-29275
- The metabolic demand and oxygen supply of the heart - Physiologic and clinical considerations p0300 A79-52894
- Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
- Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute [DLR-FB-78-10] p0280 N79-30925
- Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes p0307 N79-32825
- OXYGEN PRODUCTION**
- Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248] p0053 N79-12710
- Medical science in Siberia: Oxygen exchange in the Far North [NASA-TM-75391] p0211 N79-24630
- OXYGEN REGULATORS**
- The dynamic oxygen-regulator test stand [AD-A060978] p0125 N79-17560

OXYGEN SUPPLY EQUIPMENT**NT OXYGEN MASKS**

Oxygen systems for Army helicopters

p0044 A79-14421

U.S. Navy development of an on-board oxygen generation /OBOG/ system

p0183 A79-33634

Molecular sieve oxygen generating system - The argon question /A brief review/ --- effects of 5 percent Ar in breathing gas

p0274 A79-49994

Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248]

p0053 N79-12710

US Navy development of an On-Board Oxygen Generation (OBOG) system [AD-A063958]

p0197 N79-24656

OXYGEN SYSTEMS**U OXYGEN SUPPLY EQUIPMENT****OXYGEN TENSION****NT HYPOXEMIA**

Cerebral gas exchange in rats adapted to hypoxia during inspiration of oxygen-poor mixtures

p0097 A79-20623

Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures

p0135 A79-27557

Effects of chronic changes in hemoglobin-o2 affinity in rats

p0185 A79-33808

The effect of hyperoxia on the oxygen tension of blood and cerebral tissue

p0208 A79-38146

Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta

p0234 A79-43205

Oxygen affinity of blood in altitude Sherpas

p0268 A79-47854

The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia

p0296 A79-51116

Noninvasive estimation of bilirubin and hemoglobin oxygen saturation in the skin by reflection spectrophotometry

p0054 N79-13684

OXYGEN TOXICITY**U HYPEROXIA****OXYGENATION**

Evaluation of fluoropolymer membranes in oxygenators [PB-286698/6]

p0112 N79-16547

Thermodynamic studies on the oxygenation and subunit association of human hemoglobin

p0142 N79-18576

Mathematical studies of oxygen transport to tissue

p0170 N79-20723

Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea

p0193 A79-23637

Evaluation of oxidizability of air in closed areas

p0313 N79-33808

OXYHEMOGLOBIN**Oxygen affinity of blood in altitude Sherpas**

p0268 A79-47854

Application of an isolated heart model to investigate blood-oxygen delivery

p0296 A79-51112

A molecular description of oxygen binding to hemoglobin

p0194 N79-23646

Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub Z stress

p0286 N79-31916

OZONE

Response of the rat erythrocyte to ozone exposure

p0067 A79-18963

Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation

p0067 A79-18965

Effects of ozone inhalation on work performance and maximal oxygen uptake

p0133 A79-27103

Pulmonary function and maximum exercise responses following acute ozone exposure

p0273 A79-49987

Auditory and visual sustained attention during ozone exposure

p0273 A79-49988

The impact of sulfur dioxide on vegetation: A sulfur dioxide-ozone response model [PB-283604/7]

p0049 N79-12686

The effects of ozone on human erythrocytes and phospholipid vesicles

p0049 N79-12687

The toxicology of ozone. A bibliography with abstracts [NTIS/PS-78/1120/1]

p0057 N79-13705

The effects of H₂SO₄ on men and H₂SO₄ and O₃ on laboratory animals

p0141 N79-18354

Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7]

p0177 N79-21763

P**PAIN**

Vertebral pains in helicopter pilots --- symptomatology and radiology

p0153 N79-19656

PAINTS

Risks from various products used in paint spraying [BLL-RTS-11499]

p0142 N79-18569

PALEONTOLOGY

A critical assessment of the origin of life

p0207 A79-37985

Evolution of the biosphere /2nd enlarged edition/ --- Russian book

p0270 A79-48310

PALLADIUM

Decreased activity of palladium catalyst during processing of excreta

p0016 N79-10716

PAPERS

Translations on USSR science and technology: Biomedical and behavioral sciences, no. 59.

Effects of nonionizing electromagnetic radiation [JPRS-72956]

p0171 N79-20732

PARACHUTE DESCENT

Development of a specialized head/face protective device for test parachuting operations

p0045 A79-14437

The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases

p0256 A79-46600

Ejection problems and injuries - Their causes, effects and treatments, and suggestions for preventive measures

p0267 A79-47338

PARACHUTING

U PARACHUTE DESCENT

PARALLAX

A comparison of oculomotor and motion parallax cues of egocentric distance

p0305 A79-54253

PARAMAGNETIC RESONANCE

NT ELECTRON PARAMAGNETIC RESONANCE

PARAMECI

Preliminary results of Cytox experiment flows in Salyut VI - Investigations of Paramechium aurelia

p0229 A79-41709

PARAMETERIZATION

Parameter estimation in a human operator describing function model for a two-dimensional tracking task

p0115 N79-17481

PARAMETERS

U INDEPENDENT VARIABLES

PARANASAL SINUSES

Medical barofunction testing of aviators with otorhinolaryngologic disease

p0298 A79-52285

PARATHYROID GLAND

Morphological distinctions of the rat thyroid and parathyroid following long-term space flights

p0246 N79-27835

PARTIAL PRESSURE

NT HYPOXEMIA

NT OXYGEN TENSION

Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864]

p0214 N79-24654

PARTICLE BEAMS**SUBJECT INDEX**

PARTICLE BEAMS	
NT PROTON BEAMS	p0129 A79-25098
PARTICLE DIFFUSION	
NT IONIC DIFFUSION	
Particle deposition due to turbulent diffusion in the upper respiratory system	p0270 A79-48251
PARTICLE INTERACTIONS	
NT MOLECULAR INTERACTIONS	
NT WEAK ENERGY INTERACTIONS	
Pacific Northwest Laboratory report for 1977 to the DOD assistant secretary for environment.	
Part 2: Ecological sciences	
[PNL-2500-PT-2]	p0053 N79-13677
PARTICLE SIZE DISTRIBUTION	
The dependence of the CO ₂ removal efficiency of LiOH on humidity and mesh size --- in spacecraft life support systems	
[ASME PAPER 78-ENAS-5]	p0006 A79-12554
PARTICLES	
NT AEROSOLS	
NT BETA PARTICLES	
NT CATIONS	
NT DROPS (LIQUIDS)	
NT ELECTRONS	
NT FAST NEUTRONS	
NT FOG	
NT LIGHT BEAMS	
NT METAL IONS	
PASSENGERS	
A study of the available evidence on duration effects on comfort and task proficiency under vibration	
p0254 A79-46399	
Effects of deceleration and rate of deceleration on live seated human subjects	
[PB-284653/3]	p0057 N79-13702
PATHOGENESIS	
Cyclic nucleotides and adaptation of the organism --- Russian book	
p0133 A79-26500	
Third Symposium on Motion Sickness	
p0313 N79-33814	
PATHOLOGICAL EFFECTS	
How does the saccadic eye movement controller adapt for pathological states	
p0046 A79-14961	
Statistical studies of animal response data from USP toxicity screening test method	
p0066 A79-18305	
Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene	
p0066 A79-18306	
Two-week studies of survivors from exposures to pyrolysis gases	
p0066 A79-18307	
Laser safety bioeffects research - Histopathology of retinal effects	
p0138 A79-28169	
Extrapolation of pulsed light data in scanned displays --- laser radiation eye exposure limits	
p0138 A79-28170	
Low level laser light effects --- on vision	
p0138 A79-28171	
Pathophysiology of overloads: Bibliography of Soviet publications --- Russian book	
p0200 A79-36385	
Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body	
p0192 N79-23628	
Effect of impact accelerations on chemical resistance of rat erythrocytes	
p0313 N79-33811	
PATHOLOGY	
NT HUMAN PATHOLOGY	
Incidence of cardiovascular problems among flying personnel and their evaluation	
p0182 A79-33186	
PATIENTS	
An illness-injury severity index	
p0050 N79-12688	
PATTERN DISTRIBUTION	
U DISTRIBUTION (PROPERTY)	
PATTERN RECOGNITION	
Discrimination of density and clustering on four versions of a stochastic display --- human performance of pattern recognition	
p0036 A79-13192	
Useful visual field size for pattern perception	
p0160 A79-29250	
Training of visual recognition	
p0187 A79-34990	
The development of integrated multidimensional displays	
p0116 N79-17490	
Stereo 3-D perception for a robot	
p0019 N79-10740	
A relationship between eye movement patterns and performance in a precognitive tracking task	
p0175 N79-21747	
Training effect of recognition of different alphabets of visual stimuli	
p0175 N79-21747	
Estimation of aircraft target motion using pattern recognition orientation measurements	
p0177 N79-21764	
Application of pattern recognition to ultrasonic tissue characterization	
p0194 N79-23647	
Classification of amplitude-modulated noise patterns with extended practice	
[AD-A066703]	p0222 N79-25756
Influence of light adaptation on dark adaptation time for pattern recognition tasks	
[FB-31]	p0316 N79-33835
PATTERN REGISTRATION	
Effects of stimulus onset and image motion on contrast sensitivity	
p0231 A79-42231	
PAYOUTS	
NT SPACE SHUTTLE PAYLOADS	
PEARSON DISTRIBUTIONS	
Estimation of the operating characteristics of item response categories, 3: The normal approach method and the Pearson system [AD-A056747]	
p0145 N79-18587	
PEDOLOGY	
U SOIL SCIENCE	
PEENETRATION	
A general model for the transfer of vapour through clothed skin from liquid on and in clothing [AD-A071577]	
p0319 N79-33853	
PEPTIDES	
NT POLYPEPTIDES	
Interaction between inositol hexaphosphate and carboxybenzoxy peptide - A model for nucleic acid - Nonhistone chromosomal protein interaction	
p0100 A79-22082	
Biologically active short-chain peptides [FOA-C-40063-C1]	
p0261 N79-29785	
PERCEPTION	
NT AUDITORY PERCEPTION	
NT CONSCIOUSNESS	
NT CRITICAL FLICKER FUSION	
NT KINESTHESIA	
NT MOTION PERCEPTION	
NT PAIN	
NT PROPRIOCEPTION	
NT SENSORY PERCEPTION	
NT SPACE PERCEPTION	
NT TACTILE DISCRIMINATION	
NT TASTE	
NT VERTICAL PERCEPTION	
NT VIBRATION PERCEPTION	
NT VISUAL DISCRIMINATION	
NT VISUAL PERCEPTION	
The sensory systems --- Russian book on neurophysiology and biophysics research	
p0042 A79-14369	
Shalit Perceptual Organisation and Reduction Questionnaire (SPORQ): The instrument, design, administration and scoring [FOA-C-55021-H6]	
p0249 N79-27859	
Hemispheric asymmetry as related to pilot and radar intercept officer performance [AD-A068087]	
p0289 N79-31935	
The information in aircraft accidents investigation	
p0291 N79-31947	
PERFORMANCE	
Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PB-289951/6]	
p0179 N79-21776	
PERFORMANCE PREDICTION	
NT PREDICTION ANALYSIS TECHNIQUES	
Psychophysiological forecasting of efficiency	
p0010 A79-12867	

- Task taxonomy - Two ignored issues --- criteria for task evaluation with respect to empirical data
p0039 A79-13212
- Application of performance model to assess aviator critical incidence
p0063 A79-18209
- Cross-validation of regression equations to predict performance in a pursuit tracking task
p0064 A79-18222
- Target-terrain classification and detection performance --- to assess aerial photos for tanks
p0065 A79-18225
- Detection of conflict states in air traffic control of airport zones
p0166 A79-31181
- Predictive validity of flight simulators as a function of simulator motion
p0181 A79-32627
- Prediction of pilot reserve attention capacity during air-to-air target tracking
p0116 N79-17488
- A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings [FAA-AM-78-37]
p0123 N79-17547
- Quantification and validation of percept-genetic defense mechanism. A hierarchical analysis of behavior of pilots under stress [FOA-C-55020-H6]
p0124 N79-17555
- Performance and workload analysis of inflight helicopter missions [NLR-MP-77013-U]
p0308 N79-32834
- PERFORMANCE TESTS**
- Effects of vibration on humans - Performance decrements and limits
p0035 A79-13185
- The application of computer aided evaluative techniques to system test and evaluation --- of fighter aircraft pilot performance
p0036 A79-13190
- Imagery interpreter performance in the comparison of subjective estimates of photographic image quality
p0036 A79-13191
- Quantifying operator preference during human factors test and evaluation --- in helicopter design
p0062 A79-18202
- System operability - Concept and measurement in test and evaluation --- man system compatibility indices in F-18 aircraft example
p0062 A79-18204
- Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122]
p0052 N79-12706
- Safety evaluation tests of personal protective equipment for ordnance operations [AD-A058987]
p0053 N79-12712
- Proceedings of the 1977 Computerized Adaptive Testing Conference [AD-A060049]
p0079 N79-14771
- PERFUSION**
- U DIFFUSION
- PERIODICITY (BIOLOGY)**
- U RHYTHM (BIOLOGY)
- PERIPHERAL CIRCULATION**
- Circulatory response to arterial hyperoxia
p0221 A79-36048
- PERIPHERAL EQUIPMENT (COMPUTERS)**
- NT CONSOLES
- PERIPHERAL VISION**
- Visual-vestibular interactions. I - Influence of peripheral vision on suppression of the vestibulo-ocular reflex and visual acuity
p0135 A79-27552
- The effects of carbon monoxide on dual-task performance
p0161 A79-29716
- The peripheral critical flicker frequency
p0271 A79-49482
- Latency of peripheral saccades
p0278 A79-50987
- Technique for simulating G-induced tunnel vision
p0299 A79-52286
- Visual and optical assessment of gas protective face masks
p0152 N79-19642
- PERMEABILITY**
- Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions
p0075 N79-14743
- Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat
p0169 N79-20712
- PERMITTIVITY**
- An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals --- Specific Absorption Rate
p0278 A79-51015
- PERSIAN GULF'**
- A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem
p0132 A79-26373
- PERSONALITY**
- Vibration, performance, and personality --- vibration effects on human performance and psychological factors
p0040 A79-13224
- Masculinity, femininity, androgyny. What really works at work [AD-A061177]
p0156 N79-19683
- The psychologist in aircraft accident investigation --- pilot personality and performance
p0291 N79-31946
- PERSONALITY TESTS**
- Personality characteristics of pilots on EPPS, MPI and DOSEPU test. II - Comparison among pilots, non-pilot officers and aviation students
p0210 A79-38822
- PERSONNEL**
- NT AIR TRAFFIC CONTROLLERS (PERSONNEL)
- NT AIRCRAFT PILOTS
- NT ASTRONAUTS
- NT COSMONAUTS
- NT FLIGHT CREWS
- NT FLIGHT SURGEONS
- NT FLYING PERSONNEL
- NT GROUND CREWS
- NT NAVIGATORS
- NT OPERATORS (PERSONNEL)
- NT PILOTS (PERSONNEL)
- NT SCIENTISTS
- NT SPACECREWS
- Subjective data in human reliability estimates
p0046 A79-15398
- PERSONNEL DEVELOPMENT**
- Ergonomics laboratory studies pilots' stability for command --- psychophysiological characteristics
p0121 N79-17529
- PERSONNEL MANAGEMENT**
- Coordinated crew performance in commercial aircraft operations
p0040 A79-13219
- The next decade - Development, training, supervision
p0102 A79-23584
- Aeromedical aspects of flying training with special reference to instructor pupil relationship
p0201 A79-37139
- Initial training and retraining of technical agricultural flight personnel
p0227 A79-41166
- PERSONNEL SELECTION**
- NT PILOT SELECTION
- Psychological selection of payload astronauts
p0047 A79-15488
- Selection of astronaut candidates - Contribution of the exercise ECG and spirography
p0047 A79-15489
- Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test
p0047 A79-15490
- Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight
p0047 A79-15491
- Special tests for astronaut selection - Muscular exercise test
p0047 A79-15492
- Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80]
p0301 A79-53288
- Preliminary selection of candidates for space flights [IAF PAPER 79-83]
p0302 A79-53289
- Selection, training, and health care of working specialists for Shuttle/Spacelab and future
p0302 A79-53289

PERSPIRATION

SUBJECT INDEX

- space station missions
[IAF PAPER 79-99] p0303 A79-53297
- Development of a performance criterion for air traffic personnel research through air traffic control simulation
[AD-A058082] p0031 N79-11727
- Some variations on derivations by Primoff and their extensions
[PB-287298/4] p0112 N79-16548
- A comparison of three models for determining test fairness
[AD-A066586] N79-25751
- The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection
[FAA-AM-78-36] N79-25752
- The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices
[AD-A068581] p0281 N79-30932
- PERSPIRATION**
- Regulation and efficiency of sweating in man /Mathematical modeling/ p0097 A79-20622
- Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m p0102 A79-23474
- Thermoregulation in Macaca mulatta - A thermal balance study p0133 A79-27101
- Human skin wettedness and evaporative efficiency of sweating p0162 A79-29726
- Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
- Effect of rate of change in skin temperature on local sweating rate p0268 A79-47853
- Role of skin temperature in the control of sweating p0277 A79-50907
- Influence of skin temperature on sweating and aerobic performance during severe work p0305 A79-54268
- Mechanisms of activated carbon degradation by perspiration
[AD-A059872] p0080 N79-14777
- A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
- PESTICIDES**
- Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates p0121 N79-17527
- PETROLEUM PRODUCTS**
- NT DIESEL FUELS
- pH Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
- pH FACTOR**
- Characterization of a novel extremely alkalophilic bacterium p0004 A79-11950
- Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors p0274 A79-50230
- Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643
- PHANTOM AIRCRAFT**
- NT F-4 AIRCRAFT
- PHARMACOLOGY**
- Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat p0005 A79-12474
- Norepinephrine action on smooth muscle cells of coronary arteries p0208 A79-38149
- Study of pharmaceutical industrial problems [NASA-CR-160267] p0248 N79-27852
- PHASE TRANSFORMATIONS**
- NT FREEZING Moving phase transitions in laser-irradiated biological tissue
- Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes p0228 A79-41478
- Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes p0147 N79-19591
- PHONOCARDIOGRAMS**
- U PHONOCARDIOGRAPHY
- PHONOCARDIOGRAPHY**
- NT ECHOCARDIOGRAPHY A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0045 A79-14602
- PHOSPHATES**
- NT ADENOSINES
- NT NUCLEOTIDES
- NT POLYNUCLEOTIDES Interaction between inositol hexaphosphate and carboxylic acid - A model for nucleic acid - Nonhistone chromosomal protein interaction p0100 A79-22082
- Heat- and exercise-induced hyperthermia - Effects on high-energy phosphates p0266 A79-47332
- Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates p0121 N79-17527
- PHOSPHENE**
- Mechanism of the formation of phosphenes by X-rays p0006 A79-12516
- PHOSPHORUS**
- Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- PHOSPHORUS COMPOUNDS**
- NT ADENOSINES
- NT NUCLEOTIDES
- NT ORGANIC PHOSPHORUS COMPOUNDS
- NT PHOSPHATES
- NT POLYNUCLEOTIDES A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11685
- PHOSPHORYLATION**
- Dependence of the functional activity of liver mitochondria on microwave radiation --- oxidative phosphorylation p0075 N79-14741
- State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field p0075 N79-14742
- PHOTOCHEMICAL REACTIONS**
- NT PHOTOLYSIS
- NT PHOTOSYNTHESIS Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions p0105 A79-24520
- Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
- Photochemistry and enzymology of photosynthesis [COO-3326-70] p0239 N79-26763
- Energy transfer mechanisms in photobiological reactions [COO-875-180] p0283 N79-31898
- PHOTOCHEMISTRY**
- U PHOTOCHEMICAL REACTIONS
- PHOTODETECTORS**
- U PHOTOMETERS
- PHOTOGRAPH INTERPRETATION**
- U PHOTOINTERPRETATION
- PHOTOGRAPHIC EQUIPMENT**
- NT TELEVISION CAMERAS
- PHOTOGRAPHIC FILE**
- A numerical method of film analysis with differentiation --- curve fitting with harmonic analysis p0061 A79-17585
- PHOTOGRAPHY**
- NT AUTORADIOGRAPHY
- NT CINEMATOGRAPHY
- NT HOLOGRAPHY
- NT MULTISPECTRAL PHOTOGRAPHY
- NT STEREOGRAPHY

PHOTOINTERPRETATION

Imagery interpreter performance in the comparison of subjective estimates of photographic image quality p0036 A79-13191

Target-terrain classification and detection performance --- to assess aerial photos for tanks p0065 A79-18225

Peripheral acuity and photointerpretation performance p0068 A79-18996

The interpretation of visual motion --- Book p0186 A79-34424

Evaluation of four target-identification training techniques [AD-A061175] p0123 N79-17548

PHOTOLYSIS

Synthesis of organic compounds from carbon monoxide and water by UV photolysis p0099 A79-22077

Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319

PHOTOBETERS

A photometer for determining the biomass of microorgan from the ATP content [BLL-RTS-11456] p0141 N79-18555

PHOTOMETRY

NT SPECTROPHOTOMETRY Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006] p0157 N79-19690

PHOTON ABSORPTION

U ELECTROMAGNETIC ABSORPTION

PHOTON BEAMS

NT LIGHT BEAMS

PHOTONS

NT LIGHT BEAMS

PHOTOOXIDATION

Inverse assimilation - A general principle of evolution of planetary surfaces p0207 A79-37989

Energy transfer mechanisms in photobiological reactions [C00-875-180] p0283 N79-31898

PHOTOPHAK

Reciprocal interaction between the photopic and scotopic systems of the visual analyzer in man p0296 A79-51327

PHOTORECEPTORS

Apparent saturation of blue-sensitive cones occurs at a color-opponent stage p0002 A79-10474

Intrinsic noise, threshold sensitivity, and adaptation of the retina p0043 A79-14373

Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319

Thermal activation of the visual transduction mechanism in retinal rods p0230 A79-41746

Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses p0266 A79-47330

PHOTOREDUCTION

U PHOTOCHEMICAL REACTIONS

PHOTOSENSITIVITY

NT LIGHT ADAPTATION

Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II p0166 A79-31178

Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363

Origin of neuron responses of the superior colliculus to light flashes p0233 A79-42294

Light-driven solute transport in Halobacterium halobium p0270 A79-49194

Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163

Cerebral hemodynamics and visual analyzer function following exposure to bright light p0109 N79-16525

PHOTOSYNTHESIS

In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria p0131 A79-26100

The response of selected terrestrial organisms to the Martian environment - A modeling study p0136 A79-27928

Metal porphyrins in pre-Cambrian deposits as a probable evidence for early photosynthesis p0165 A79-30695

Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980

Inverse assimilation - A general principle of evolution of planetary surfaces p0207 A79-37989

A proposal concerning the origin of life on the planet earth p0253 A79-45641

Photosynthethic carbon reduction by seagrasses exposed to ultraviolet B radiation [NASA-CR-160104] p0175 N79-21742

Photochemistry and enzymology of photosynthesis [C00-3326-70] p0239 N79-26763

Applications of chlorophyll fluorescence transient measurements to the functional analysis of photosynthetic processes p0243 N79-27813

Adaptive optimization of exchange of gases in plants in a sealed phytotron p0313 N79-33806

PHOTOTHERMOTROPISM

U TEMPERATURE EFFECTS

PHUGOID OSCILLATIONS

U OSCILLATORS

U PITCH (INCLINATION)

PHYSICAL ENDURANCE

U PHYSICAL FITNESS

PHYSICAL EXAMINATIONS

Aviation-medicine appraisal as part of the fitness regulations in transportation p0129 A79-25373

Automatic audiometry in the practice of flight-personnel examination p0295 A79-51084

The role of physical examinations and education in prospective medicine p0026 N79-11694

Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0029 N79-11714

Cardiac conduction and aptitude problem of fliers. The benefits of endocardial recording of the His bundles p0030 N79-11716

The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers p0030 N79-11718

Prospective medicine opportunities in aerospace medicine p0171 N79-20730

Specific findings in cardiology and pulmonary function with special emphasis on assessment criteria for flying p0171 N79-20731

PHYSICAL EXERCISE

Measurement of skin temperatures of active subjects by wireless telemetry p0011 A79-12872

Selection of astronaut candidates - Contribution of the exercise ECG and spirography p0047 A79-15489

Special tests for astronaut selection - Muscular exercise test p0047 A79-15492

Exercise ventilation correlates positively with ventilatory chemoresponsiveness p0066 A79-18954

Exercise performance and hemodynamics during dietary potassium depletion in dogs p0067 A79-18959

Effect of exercise on collateral development in dogs with normal coronary arteries p0067 A79-18960

Phosphorylase a in human skeletal muscle during exercise and electrical stimulation p0067 A79-18962

PHYSICAL FACTORS

SUBJECT INDEX

- Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation p0067 A79-18965
- Effect of physical conditioning on cardiac mitochondrial function p0068 A79-18966
- Effect of water and electrolyte replacement during exercise in the heat on biochemical indices of stress and performance p0127 A79-24629
- Caloric and exercise requirements of space flight - Biostereometric results from Skylab p0128 A79-24637
- The effects of different levels of heat production induced by diathermy and eccentric work on thermoregulation during exercise at a given skin temperature p0128 A79-24698
- CO₂ and exercise tidal volume p0133 A79-27104
- Mechanics of the regulation of the respiratory system in man p0160 A79-29258
- Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions p0161 A79-29336
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man p0163 A79-30624
- Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
- Control of skin blood flow during exercise - Thermal and nonthermal factors p0185 A79-33807
- Physical performance and peak aerobic power at different body temperatures p0221 A79-36046
- Anaerobic threshold alterations caused by endurance training in middle-aged men p0227 A79-41184
- Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man p0235 A79-43208
- Temperature changes during exercise measured by thermography p0235 A79-43209
- Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance p0235 A79-43210
- Influence of exercise and CO₂ on breathing pattern of normal man p0237 A79-43704
- Effects of endurance training on left ventricular dimensions in healthy men p0237 A79-43706
- The evolutionary pattern of exercise-induced ST segment depression p0251 A79-44166
- Hyperthermia and exercise --- plasma fluid and electrolyte effects on human thermoregulation p0252 A79-44775
- Mechanical efficiency of fast- and slow-twitch muscle fibers in man during cycling p0268 A79-47852
- Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice p0268 A79-47855
- Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
- Pulmonary function and maximum exercise responses following acute ozone exposure p0273 A79-49987
- Prediction of body temperatures during exercise in flying clothing p0273 A79-49989
- Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- Frequency and amplitude analysis of the EMG during exercise on the bicycle ergometer p0297 A79-52022
- Metabolic adrenergic changes during submaximal exercise and in the recovery period in man p0305 A79-54267
- Effects of endogenous factors on the process of gas bubble formation in the body related to decompression p0015 N79-10713
- Mechanics of breathing during graded exercise measured with the bodyplethysmograph p0029 N79-11709
- Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers p0030 N79-11717
- Metabolic responses of ponies to treadmill exercise in hyperoxia p0049 N79-12681
- Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
- Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
- Evidence for the neural regulation of respiration During low intensity exercise in man p0144 N79-18578
- Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
- External respiration and gas exchange reactions to exercise during rotation of man on a short-radius centrifuge p0193 N79-23639
- The influence of various physiological responses on ratings of perceived exertion before and after training p0194 N79-23649
- Evaluation of exercise-respiratory system modifications and preliminary respiratory-circulatory system integration scheme [NASA-CR-160221] p0212 N79-24639
- Aortic blood flow velocity during exercise in man p0216 N79-25710
- The influence of exercise on bone atrophy [NASA-CR-160196] p0216 N79-25714
- User's instructions for the high speed version of the cardiovascular exercise model [NASA-CR-160211] p0218 N79-25724
- Evaluation of exercise-respiratory system modifications and integration schemes for physiological systems [NASA-CR-160223] p0219 N79-25733
- The effects of dehydration on peripheral cooling [AD-A065332] p0220 N79-25745
- Stress management: A comparison of educational, aerobic and autosuggestive approaches p0260 N79-28875
- Possibility of improving assessment of cardio-pulmonary function by submaximal exercise on a bicycle ergometer [BLL-RTS-11657] p0279 N79-30918
- PHYSICAL FACTORS**
- Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies [SAND-77-2132] p0034 N79-11748
- PHYSICAL FITNESS**
- Influences of physical conditioning and deconditioning on coronary vasculature of dogs p0067 A79-18955
- Pulmonary blood volume and interventricular circulation time in physically trained and untrained subjects p0128 A79-24700
- Effects of endurance training on left ventricular dimensions in healthy men p0237 A79-43706
- Follow-up and transversal study of vital capacity and FEV₁ sub values among personnel of the Belgian Army forces p0028 N79-11706
- Coronary atherosclerosis and fitness for flying p0029 N79-11711
- Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness p0030 N79-11721
- Cardiovascular fitness of pilots of transport aircraft p0031 N79-11726
- Rehabilitation measures used to restore physical fitness of man after long-term restriction of

SUBJECT INDEX

PHYSIOLOGICAL EFFECTS

- Movement** p0110 N79-16534
- An investigation to determine the effect of physical conditioning upon fibrinolytic reactivity in normal young men p0110 N79-16536
- Cardiac adaptation to endurance training: Determined by echocardiography and electrocardiography p0194 N79-23648
- Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
- The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- PHYSICAL WORK**
- Temperature effect of muscular work in the white rat during hypoxia p0097 A79-20654
- The effects of different levels of heat production induced by diathermy and eccentric work on thermoregulation during exercise at a given skin temperature p0128 A79-24698
- Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 A79-43202
- Mechanical efficiency of fast- and slow-twitch muscle fibers in man during cycling p0268 A79-47852
- Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- Influence of skin temperature on sweating and aerobic performance during severe work p0305 A79-54268
- The influence of various physiological responses on ratings of perceived exertion before and after training p0194 N79-23649
- A stochastic model of muscle fatigue in frequent strenuous work cycles p0261 N79-29789
- PHYSIOCHEMISTRY**
- Metabolic adrenergic changes during submaximal exercise and in the recovery period in man p0305 A79-54267
- PHYSIOLOGICAL ACCELERATION**
- Positive pressure breathing as a protective technique in +Gz acceleration p0201 A79-37132
- PHYSIOLOGICAL DEFENSES**
- Cyclic nucleotides and adaptation of the organism --- Russian Book p0133 A79-26500
- Increased survival in experimental dog heatstroke after reduction of gut flora p0266 A79-47335
- PHYSIOLOGICAL EFFECTS**
- HT HEMODYNAMIC RESPONSES**
- HT PHYSIOLOGICAL RESPONSES
- The European life sciences experiments onboard the first Spacelab mission [ASME PAPER 78-ENAS-24] p0007 A79-12573
- Effect of decompression per se on nitrogen elimination p0067 A79-18964
- Effect of physical conditioning on cardiac mitochondrial function p0068 A79-18966
- Effect of alcohol and marijuana on eye movements p0101 A79-23469
- Modeling heat transfer through human skin subjected to high external temperatures p0102 A79-23782
- Effects of brief exposure of domestic fowl to very intense acceleration fields p0127 A79-24631
- Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance p0127 A79-24635
- Physiological aspects of flight --- Book p0134 A79-27298
- Laser safety bioeffects research - Histopathology of retinal effects p0138 A79-28169
- Mechanisms of the effect of oxygen toxicity on the energy metabolism p0160 A79-29275
- Conjoint effect of physical stress and noise stress on information processing performance and cardiac response p0161 A79-29715
- Biodynamic effects of canopy loss in the TF-15 aircraft p0163 A79-30651
- Spaceflight and bone turnover - Correlation with a new rat model of weightlessness p0182 A79-33049
- Cardiac changes during behavioral stress in dogs p0200 A79-36575
- Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
- Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
- Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
- Thermal bounds to the time of stay of human beings in enclosures p0231 A79-41770
- Retinal site of transient tritanopia p0256 A79-46623
- The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man p0267 A79-47398
- Comparison of physiological effects of head-down tilting and immersion on the human body p0298 A79-52279
- Space biology and aerospace medicine, vol. 12, no. 5, 1978 [JPRS-72115] p0013 N79-10698
- Cardiac arrhythmia following postimmersion +G sub z accelerations p0015 N79-10710
- The effects of carbon monoxide and cyanide on the brain p0024 N79-11682
- Anthropometric changes in weightlessness p0032 N79-11735
- Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies [SAND-77-2132] p0034 N79-11748
- Paul Bert [NASA-TM-75599] p0055 N79-13687
- The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204] p0055 N79-13693
- The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212] p0056 N79-13694
- Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils p0074 N79-14732
- Chemicals in environment affect man's physiology p0077 N79-14754
- The physiological significance of light for human beings [RAE-LIB-TRANS-1976] p0077 N79-14757
- Investigations into the importance of the direction of centrifugal forces acting on the human body [RAE-LIB-TRANS-1945] p0077 N79-14758
- Evaluation of British and Canadian conductive rubber heating elements for handwear: Preliminary report [AD-A052826] p0093 N79-15637
- Development opportunities in the space environment p0095 N79-15897
- Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0109 N79-16526
- The effects of the pollutant, sodium cyanide, on the morphology and physiology of oedogonium cardiacum p0147 N79-19028

PYHIOLOGICAL FACTORS

SUBJECT INDEX

- Protective approaches in the moderation of the physiological effects of extreme ambient conditions in helicopter operations [AD-A068535/4] p0283 N79-31896
 Backache in UH-1D helicopter crews p0149 N79-19618
 Implementation of a divisional aviation program to decrease flight crew fatigue p0149 N79-19620
 Disorientation in Royal Naval helicopter pilots p0150 N79-19624
 Human circadian physiology: Internal organization of temperature, sleep-wake and neuroendocrine rhythms monitored in an environment free of time cues p0152 N79-19648
 Translations on USSR science and technology: Biomedical and behavioral sciences, no. 59. p0154 N79-19670
 Effects of nonionizing electromagnetic radiation [JPRS-72956] p0171 N79-20732
 Decrease in the functional abilities of the heart as a result of exposure of an organism to an electromagnetic field of industrial frequency p0172 N79-20733
 Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
 Evaluation of toxic effects of organic contaminants in recycled water [PB-291379/6] p0190 N79-22760
 Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body p0192 N79-23628
 Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630
 The adrenosympathetic system in the presence of traumatic shock during simulation of effects of weightlessness on the human body p0192 N79-23633
 Cardiac adaptation to endurance training: Determined by echocardiography and electrocardiography p0194 N79-23648
 The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans p0195 N79-23651
 Survival and protection of aircrew in the event of accidental immersion in cold water [AGARD-AG-211(ENG)] p0196 N79-23661
 Physical and mental working environment in a terminal based computer system [BLL-RTS-11634] p0197 N79-23665
 Evaluation of exercise-respiratory system modifications and preliminary respiratory-circulatory system integration scheme [NASA-CR-160221] p0212 N79-24639
 Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4] p0197 N79-25706
 A prioritized set of physiological measurements for future spaceflight experiments [NASA-CR-160202] p0217 N79-25719
 Physiological effects of a military training program on males and females [AD-A062936] p0220 N79-25744
 A porcine bioassay study of the physiological effects of fiber and dye degradation products (FDP) on burn wound healing [AD-A066990] N79-25748
 Physiological effects of a high soybean protein diet in man p0240 N79-26777
 Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
 Biologically active short-chain peptides [FOA-C-40063-C1] p0261 N79-29785
 Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute [DLR-FB-78-10] p0280 N79-30925
 Effects of propranolol on Time of Useful Function (TUF) in rats --- tolerance to rapid decompression
- [AD-A070142] p0310 N79-33788
 Space Biology and Aerospace Medicine, no. 4, 1979 [JPRS-74330] p0310 N79-33789
 Control of vertical position after flights aboard the Salyut-4 orbital station p0311 N79-33793
 Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite p0311 N79-33795
 Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
 Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
 Significance of the vibration component to the deleterious effect of impact accelerations p0312 N79-33801
 Effect of restricted activity on vestibular function p0312 N79-33802
 Fundamental biophysical aspects of decompression sickness [AD-A069998] p0315 N79-33827
 Optimal methods for physiologic research on clothing [AD-A071855] p0319 N79-33852
- PYHIOLOGICAL FACTORS**
- NT PHYSICAL FACTORS**
- Physiological biorhythm as a correlate of pilot error accidents and incidents p0065 A79-18228
 Physiologic and performance measurements in simulated airborne combined stress environments p0202 A79-37710
 The physiologist's view of sensory illusions p0255 A79-46597
 Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53486
 Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite p0021 N79-11664
 A system of training in aviation physiology and human factors for Army and Navy helicopter aircrew p0151 N79-19635
 A methodology for conducting human factors evaluations of vehicles in operational field tests [AD-A061808] p0157 N79-19691
- PYHIOLOGICAL RESPONSES**
- NT HEMODYNAMIC RESPONSES**
- The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
 An apparatus for studying electroretinographic responses under conditions of space flight p0006 A79-12517
 Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22] p0007 A79-12571
 Sustained operations and sleep deprivation - Effects on indices of stress p0009 A79-12859
 Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
 Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
 Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool p0037 A79-13196
 Simulation study on time series of heart responses p0037 A79-13197
 Effects of information processing requirements on reaction time of the eye p0064 A79-18219
 Exercise ventilation correlates positively with ventilatory chemoresponsiveness p0066 A79-18954

- Effect of exercise on collateral development in dogs with normal coronary arteries p0067 A79-18960
- Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation p0067 A79-18965
- Distribution of pulmonary ventilation and perfusion during short periods of weightlessness p0068 A79-18967
- Collision avoidance response stereotypes in pilots and nonpilots p0068 A79-18995
- Structure of biorhythms as one of the criteria for physiological adaptability of the human organism p0097 A79-20653
- Eye movements and symmetry - Foundations for a quantitative analysis of eye movements as they depend on the structure of the perception field --- German thesis p0098 A79-20756
- Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0101 A79-23075
- Mitral prolapse and acceleration --- in aircraft pilots p0103 A79-23951
- Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction p0103 A79-23953
- Automatic control of physiological functions of the human organism in pathology --- Russian book p0132 A79-26350
- Weight control and restraint of laboratory rats p0133 A79-26584
- Model of human heat exchange and identification of its parameters Physiological studies and mathematical modeling p0159 A79-28739
- Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen p0164 A79-30655
- Mechanical vs. ischemic mechanisms for decompression sickness p0164 A79-30656
- Responses of high altitude natives to a standard cold test at sea level p0164 A79-30658
- Oculogravice illusion in response to straight-ahead acceleration of a CF-104 aircraft p0164 A79-30660
- Cardiac response to whole-body heating p0165 A79-30661
- Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- Process of search control of coordinated movement in man p0166 A79-30701
- The development of laser exposure limits p0181 A79-32320
- Ageing and flying fitness p0182 A79-33190
- Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability p0188 A79-35122
- Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- Evaluation of physiological indices during preflight medical examination of pilots p0188 A79-35138
- Microwave apexcardiography p0231 A79-41848
- Origin of neuron responses of the superior colliculus to light flashes p0233 A79-42294
- Enhancement of luminance flicker by color-opponent mechanisms p0252 A79-44582
- Hyperthermia and exercise --- plasma fluid and electrolyte effects on human thermoregulation p0252 A79-44775
- Using color substitution pupil response to expose chromatic mechanisms p0265 A79-47116
- Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251
- Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- Responses of conscious rabbits to CO₂ at ambient temperatures of 5, 20, and 35 C p0277 A79-50904
- The effect of normobaric hyperoxia on brain and liver tissue respiration in albino rats with different resistances to hypoxia p0296 A79-51113
- The physiological role of surface-active substances in the lung p0296 A79-51117
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
- Ultrastructural development of the vestibular system of frog larvae in 0g simulation [IAF PAPER 79-78] p0301 A79-53287
- Eye torsion in response to a tilted visual stimulus p0305 A79-54254
- Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
- Characteristics of vestibular nystagmus in rats p0016 N79-10714
- A method of evaluating the pupillary reaction to vestibular stimuli p0016 N79-10717
- Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720
- Modeling of visual-vestibular interaction and the fast components of nystagmus p0050 N79-12692
- Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study [NASA-SP-430] p0054 N79-13686
- Biological effects of nonionizing electromagnetic radiation. Volume 2, number 4: A digest of current literature [AD-A055569] p0055 N79-13689
- Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487] p0072 N79-14716
- Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826] p0107 N79-16514
- Antiorthostatic hypokinesia as an approximate model of weightlessness p0108 N79-16520
- Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction p0108 N79-16521
- Heart rate: Physiological characteristics and quantification methods for use in behavioral studies [CSIR-SR-PERS-276] p0121 N79-17531
- A comparison of the physiological responses in young men and women to heat and cold stress [AD-A061024] p0155 N79-19679
- The influence of various physiological responses on ratings of perceived exertion before and after training p0194 N79-23649
- Design specification for the whole-body algorithm [NASA-CR-160226] p0212 N79-24641
- Systems identification and application systems development for monitoring the physiological and health status of crewmen in space [NASA-CR-160235] p0212 N79-24642
- Study report on combining diagnostic and therapeutic considerations with subsystem and whole-body simulation [NASA-CR-160231] p0213 N79-24644
- A prioritized set of physiological measurements for future spaceflight experiments [NASA-CR-160202] p0217 N79-25719

- User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735
- The validation of biodynamic models p0286 N79-31914
- Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia p0313 N79-33813
- PHYSIOLOGICAL TELEMETRY**
- G BIOTELEMETRY**
- PHYSIOLOGICAL TESTS**
- NT BODY SWAY TEST
- NT EAR PRESSURE TEST
- NT ELECTRONYSTAGMOGRAPHY
- NT VESTIBULAR TESTS
- Motion sickness susceptibility - A retrospective comparison of laboratory tests p0010 A79-12861
- Selection of astronaut candidates - Contribution of the exercise ECG and spirography p0047 A79-15489
- Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test p0047 A79-15490
- Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight p0047 A79-15491
- Special tests for astronaut selection - Muscular exercise test p0047 A79-15492
- Phosphorylase a in human skeletal muscle during exercise and electrical stimulation p0067 A79-18962
- Evoked potential correlates of display image quality p0068 A79-18998
- Regional blood supply under hypoxic hypoxia p0097 A79-20652
- Interaction between hypothalamic and bulbar levels of regulating blood circulation p0098 A79-21242
- The time parameter in exposures to microwave radiation --- rodent experiments on damage and recovery p0105 A79-24419
- CO₂ and exercise tidal volume p0133 A79-27104
- Individual differences in hypoxic responses at high altitudes p0159 A79-28738
- Mechanics of the regulation of the respiratory system in man p0160 A79-29258
- Effect of paradoxical sleep deprivation on the acquisition of sound discrimination p0167 A79-31988
- Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves p0188 A79-35917
- Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves p0188 A79-35918
- Predictive accuracy of Q-T/Q-Tc ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing --- heart pathology p0225 A79-40464
- Anaerobic threshold alterations caused by endurance training in middle-aged men p0227 A79-41184
- Erythropoietic effects of space flight p0231 A79-42193
- Some forms of adaptation to extreme influences in the blood system p0256 A79-46679
- Epiphysis of rats under the combined action of hypoxia, hypercapnia and cooling p0256 A79-46680
- Reproducibility of +Gz tolerance testing p0267 A79-47337
- Design, fabrication and utility of a flight oriented performance test p0271 A79-49728
- Effects of congenital and noncongenital alcoholic beverages on a clinical ataxia test battery p0273 A79-49984
- Pulmonary function and maximum exercise responses following acute ozone exposure p0273 A79-49987
- Prediction of body temperatures during exercise in flying clothing p0273 A79-49989
- Biomechanical properties of muscles and the efficiency of movement p0276 A79-50652
- Dynamical characteristics of visual functions p0276 A79-50656
- Forms of oculomotor activity under conditions of positive visual feedback p0276 A79-50657
- Auditory evoked potentials during short-term auditory stimulation p0277 A79-50659
- Time parameter in microwave irradiation --- rodent experiments on damage and recovery p0277 A79-50694
- Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
- The effect of the reduction of inspired gas density on external respiration p0296 A79-51115
- A cinematographic technique for investigating some aspects of visual recognition p0300 A79-53067
- Continuous long-duration recording of the heart rate by means of a noncontact technique p0300 A79-53068
- Changes in critical duration during dark-adaptation p0304 A79-54252
- Standardized examination methods in ergometry p0029 N79-11710
- Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness p0030 N79-11721
- Normal and pathological cardiovascular findings in applicants to the Air Force service p0031 N79-11722
- Stability of circadian system of the body p0073 N79-14723
- Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971] p0080 N79-14774
- Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
- Results of a 64Cu-loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04] p0240 N79-26774
- The oral 64Cu-loading test: Applications and problems [IRI-133-78-02] p0240 N79-26775
- Effects of acute noise traumata on whole-nerve and single-unit activity [IZF-1978-23] p0308 N79-32829
- Effects of amphetamine on response selection and response execution processes in choice reaction tasks [IZF-1978-8] p0309 N79-32839
- PHYSIOLOGY**
- NT ELECTROPHYSIOLOGY
- NT HEMATOPOIETIC SYSTEM
- NT NEUROPHYSIOLOGY
- NT PSYCHOPHYSIOLOGY
- NT RESPIRATORY PHYSIOLOGY
- Relations between research and instruction in physiology and aerospace ergonomics in the military health services p0104 A79-23960
- Ecological physiology of animals. I - General ecological physiology and physiology of adaptations --- Russian book p0275 A79-50474
- Aircrew inflight physiological data acquisition system 2 [AD-A055638] p0055 N79-13690
- Information on the comparative physiology of digestive enzymes [BLR-RTS-11203] p0142 N79-18572
- Application of numerical methods to physiological flows --- Navier-Stokes equation, prosthetic

- heart valves and vasoconstriction p0146 N79-18945
- Physiological system integrations with emphasis on the respiratory-cardiovascular system [NASA-CR-160230] p0213 N79-24643
- The application of sensitivity analysis to models of large scale physiological systems [NASA-CR-160228] p0213 N79-24645
- Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm [NASA-CR-160232] p0218 N79-25729
- Physiological fluid dynamics [VXI-LECTURE-SERIES-32] p0247 N79-27843
- Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis [NASA-CR-162103] p0279 N79-30922
- PHOTOTROTONS**
- Adaptive optimization of exchange of gases in plants in a sealed phototron p0313 N79-33806
- PICOSECOND PULSES**
- Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses p0266 A79-47330
- PIGMENTS**
- NT CHLOROPHYLLS
- NT CYTOCHROMES
- NT MELANIN
- NT VISUAL PIGMENTS
- PILOT ERROR**
- False hypothesis and the pilot --- aircraft accidents due to decision making errors [SAE PAPER 780528] p0001 A79-10399
- Application of performance model to assess aviator critical incidence p0063 A79-18209
- Physiological biorhythm as a correlate of pilot error accidents and incidents p0065 A79-18228
- Human error accidents - Some case studies --- for aircraft p0183 A79-33193
- Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
- Directional errors of movements and their correction in a discrete tracking task --- pilot reaction time and sensorimotor performance p0086 N79-15589
- Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254] p0290 N79-31942
- Three decades of USAF efforts to reduce human error accidents, 1947-1977 p0290 N79-31943
- Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force p0290 N79-31945
- Pilot incapacity in flight p0291 N79-31950
- Geographical disorientation and flight safety p0291 N79-31951
- PILOT PERFORMANCE**
- Flight management research utilizing an oculometer --- pilot scanning behavior during simulated approach and landing p0001 A79-10389
- The application of computer aided evaluative techniques to system test and evaluation --- of fighter aircraft pilot performance p0036 A79-13190
- The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight p0038 A79-13204
- Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit p0038 A79-13205
- Visual workload of the copilot/navigator during terrain flight p0038 A79-13206
- Four years of color research for visual displays --- human performance consideration for use in aircraft p0039 A79-13210
- Response surface methodology as a manipulator of complex task difficulty --- for computer generated aircraft area navigation control-display systems evaluation p0039 A79-13211
- Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits p0039 A79-13213
- The assessment of rotary wing aviator precision performance during extended helicopter flights p0040 A79-13221
- Development of automated performance measures for introductory air combat maneuvers p0040 A79-13223
- Experimental and psychological investigations in aviation and astronautics --- Russian book p0041 A79-13998
- Increasing pilot's performance capacity during flight through use of a control element serving as information carrier [DGIR PAPER 78-152] p0042 A79-14097
- High 'Q' escape protection --- pilot restraint during high speed ejection p0044 A79-14428
- The multiloop concept of the pilot work load as a basis of future experiments and studies [ONERA, TP NO. 1978-101] p0045 A79-14795
- Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972
- Selection and techniques for analysis of indices of visual data reception. II --- aircraft pilot eye movements p0047 A79-15494
- The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft p0061 A79-17683
- Quantifying operator preference during human factors test and evaluation --- in helicopter design p0062 A79-18202
- Time estimation as a technique to measure workload --- of aircraft pilot in flight simulation p0062 A79-18203
- AWAVS, a research facility for defining flight trainer visual system requirements p0062 A79-18207
- Augmented feedback in adaptive motor skill training p0062 A79-18208
- The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing p0063 A79-18210
- An investigation of pictorial and symbolic aircraft displays for landing p0063 A79-18211
- Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
- Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix p0063 A79-18214
- Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter p0063 A79-18215
- Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216
- Air Combat Maneuvering Range /ACMR/ - Bas operational performance measurement entered a Golden Age p0064 A79-18221
- On the relationship between pilot rating and pilot dynamics. I - An experimental approach p0066 A79-18474
- On the relationship between pilot rating and pilot dynamics. II - An analytical approach p0066 A79-18475
- Human engineering study of information processing applicable to helmet-mounted displays p0068 A79-18994
- Collision avoidance response stereotypes in pilots and nonpilots p0068 A79-18995
- Incapacitation time for +Gz-induced loss of consciousness

- Choice and techniques of analysis of indices for the perception of visual information. III --- by pilots p0102 A79-23475
- Universal airborne approach to pilot performance assessment [SAE PAPER 781009] p0103 A79-23954
- A study of progress in flying performance revealed from daily check sheets in a primary flight training course. III - Comparison of progress between two courses p0130 A79-25891
- Current role of alcohol as a factor in civil aircraft accidents p0136 A79-27561
- Windshield quality and pilot performance measurement utilizing computer-generated imagery p0137 A79-28165
- Short-term memory factors in ground controller/pilot communication p0181 A79-32626
- Predictive validity of flight simulators as a function of simulator motion p0181 A79-32627
- Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714
- Methodological considerations of visual workloads of helicopter pilots p0209 A79-38363
- Visual workload of the copilot/navigator during terrain flight p0209 A79-38364
- Analysis of electroencephalogram during psychomotor performance p0209 A79-38820
- Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet fighter p0209 A79-38821
- Pilot workload in the aircraft of the future p0226 A79-40646
- Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft p0236 A79-43675
- Pilot-optimal augmentation of the air-to-air tracking task [AIAA 79-1747] p0252 A79-45388
- Sensory illusions - The ophthalmologist's point of view p0255 A79-46595
- Sensory illusions of vestibular origin p0255 A79-46596
- The physiologist's view of sensory illusions p0255 A79-46597
- The vestibule and flying --- pilot disorientation p0255 A79-46598
- Modeling human tracking performance in a high G-stress environment p0269 A79-48012
- Pilot workload during final approach in congested airspace p0269 A79-48014
- Delayed effects of alcohol ingestion on + Gz tolerance p0272 A79-49730
- In-flight measures of stress reduction due to wearing expandable foam earplugs p0273 A79-49986
- Man and automation --- for human-automatic pilot interfaces p0275 A79-50372
- Advanced transport operation effects on pilot scan patterns p0295 A79-51098
- Technique for simulating G-induced tunnel vision p0299 A79-52286
- The influence of low frequency vibration on pilot performance /as measured in a fixed base simulator/ p0299 A79-52326
- Lightweight helmet-mounted eye movement measurement system p0303 A79-53516
- Effects of vibration and noise on some indices of efficiency of MI-4 helicopter crews p0015 N79-10711
- Experience with periodic aviation medical examinations p0026 N79-11696
- A prospective medicine approach to the problem of ischemic vascular disease in the USAF p0027 N79-11697
- The significance of rhythm disturbances in asymptomatic persons p0027 N79-11698
- Cardiovascular diseases as a cause of unfitness for flying service in aircrews of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention p0031 N79-11725
- Psychophysiological effects of aging: Developing a functional age index for pilots. 2: Taxonomy of psychological factors [FAA-AM-78-16] p0054 N79-13685
- Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888] p0055 N79-13692
- The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212] p0056 N79-13694
- Dynamics of impairment of pilot performance in the presence of hypoxia p0073 N79-14724
- A simulator study of the interaction of pilot workload with errors, vigilance, and decisions [NASA-TM-78482] p0079 N79-14769
- Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971] p0080 N79-14774
- The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776
- A study of the effect of forcing function characteristics on human operator dynamics in manual control p0086 N79-15590
- Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- Discrete-time pilot model --- human dynamics and digital simulation p0088 N79-15601
- Pilot-optimal augmentation synthesis p0088 N79-15603
- Prediction, evaluation, and specification of flying qualities by means of step target tracking p0088 N79-15604
- Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator p0088 N79-15605
- A method motion simulator design based on modeling characteristics of the human operator p0091 N79-15623
- Pilot decision making in a computer-aided flight management situation p0093 N79-15633
- Pilot workload qualification for avionics design p0114 N79-16564
- Training implications p0114 N79-16565
- An approach to the multi-axis problem in manual control --- optimal pilot model p0115 N79-17482
- Error rate information in attention allocation pilot models p0115 N79-17483
- The effects of participatory mode and task workload on the detection of dynamic system failures p0116 N79-17487
- Prediction of pilot reserve attention capacity during air-to-air target tracking p0116 N79-17488
- Prediction of pilot-aircraft stability boundaries and performance contours p0118 N79-17507

- Discrete time modeling of heavy transport plane pilot behavior p0118 N79-17508
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- Motion cue effects on human pilot dynamics in manual control p0119 N79-17514
- Study of the use of a nonlinear, rate limited, filter on pilot control signals p0119 N79-17515
- Ergonomics laboratory studies pilots' stability for command --- psychophysiological characteristics p0121 N79-17529
- Psychophysiological effects of aging: Developing a functional age index for pilots. 3: Measurement of pilot performance [PAA-AM-78-27] p0123 N79-17546
- An analysis of helicopter pilot control behaviour and workload during instrument flying tasks [NLR-MP-78003-U] p0124 N79-17553
- Influence of motion wash-out filters on pilot tracking performance [NLR-MP-78005-U] p0124 N79-17554
- Quantification and validation of percept-genetic defense mechanism. A hierarchical analysis of behavior of pilots under stress [POA-C-55020-R6] p0124 N79-17555
- Motion cue models for pilot-vehicle analysis [AD-A061477] p0125 N79-17561
- Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976 [PAA-AM-78-25] p0144 N79-18582
- Stress factors on pilot performance. A bibliography with abstracts [NTIS/PS-78/1289/4] p0145 N79-18589
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
- An analysis of helicopter pilot control behavior and workload during instrument flying tasks p0150 N79-19630
- Visual requirements for the helicopter pilot p0151 N79-19636
- Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640
- Sensorial aspects of helicopter operations p0152 N79-19644
- Disorientation in Royal Naval helicopter pilots p0152 N79-19648
- Head aiming/tracking accuracy in a helicopter environment p0153 N79-19651
- Aviator visual performance: A comparative study of a helicopter simulator and the OH-1 helicopter p0153 N79-19652
- The effects of pilot age, lighting, and head-down time on visual accommodation [AD-A064912] N79-25747
- An adaptive controller which displays human operator limitations for a fighter type aircraft [AD-A066193] p0223 N79-25763
- Air Force female pilots program: Initial performance and attitudes [AD-A065641] p0241 N79-26783
- Balance training of the equilibrium organ and its effect on flight strategy p0242 N79-27074
- Stress factors on pilot performance. Citations from the International Aerospace Abstracts data base [NTIS/PS-79/0506/0] p0260 N79-28878
- Crew workload assessment. Development of a measure of operator workload [AD-A068616] p0261 N79-28884
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- The psychologist in aircraft accident investigation --- pilot personality and performance p0291 N79-31946
- Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view [AD-A070231] p0308 N79-32832
- Performance and workload analysis of inflight helicopter missions [NLR-MP-77013-U] p0308 N79-32834
- Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844
- The role of cognitive switching in head-up displays --- to determine pilot ability to accurately extract information from either of two sources [NASA-CH-3137] p0318 N79-33851
- PILOT SELECTION**
- An Air Combat Effectiveness Study /ACES/ program p0040 A79-13222
- Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability p0188 A79-35122
- Personality characteristics of pilots on EPPS, MPI and DOSEFU test. II - Comparison among pilots, non-pilot officers and aviation students p0210 A79-38822
- The relative effects of multiple factors on target acquisition --- by combat pilots p0267 A79-47765
- Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
- The impact of coronary vascular risk factors on professional aircrew license loss in the United Kingdom p0031 N79-11724
- Stability of circadian system of the body p0073 N79-14723
- Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol [AD-A059412] p0084 N79-15577
- A description of the recent neuropsychological selection of pilots for land forces light aircraft p0151 N79-19633
- PILOT TRAINING**
- Piloted aircraft simulation - Advantages, disadvantages, and practical problems [SAE PAPER 780548] p0001 A79-10407
- A computer-based simulator simulator --- computer-assisted pilot training p0039 A79-13215
- Transfer of a computer-assisted instrument procedures trainer to flight p0039 A79-13216
- Joint testing of the RAP high altitude protective ensemble p0044 A79-14434
- The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight p0062 A79-18206
- AWAVS, a research facility for defining flight trainer visual system requirements p0062 A79-18207
- Augmented feedback in adaptive motor skill training p0062 A79-18208
- Application of performance model to assess aviator critical incidence p0063 A79-18209
- Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216
- A visual simulator with transformation of the perspective in the raster of television pictures --- German book on pilot training systems p0069 A79-19375
- Role of autogenic training in psychophysiological conditioning of aviation school students p0098 A79-21244
- Naval aviation training - Perspective and prospects [SAE PAPER 781004] p0130 A79-25886

PILOTED CENTRIFUGES

SUBJECT INDEX

Cost analysis of pilot training systems
[SAE PAPER 781005] p0130 A79-25887
Recent studies of simulation training effectiveness
[SAE PAPER 781006] p0130 A79-25888
Recent developments and plans for pilot training devices
[SAE PAPER 781007] p0130 A79-25889
A study of progress in flying performance revealed from daily check sheets in a primary flight training course. III - Comparison of progress between two courses p0134 A79-27119
Transfer of landing skill after training with supplementary visual cues p0138 A79-28167
Aeromedical aspects of flying training with special reference to instructor pupil relationship p0201 A79-37139
Personality characteristics of pilots on EPPS, MPI and DOSEFU test. II - Comparison among pilots, non-pilot officers and aviation students p0210 A79-38822
The relationship between flight simulator motion and training requirements p0267 A79-47766
Soviet civil aviation training programs p0270 A79-49221
Synthetic training and evaluation - Some current issues p0275 A79-50550
Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators p0297 A79-52276
Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
Subjective motion discrimination in the simulator for air-to-air combat [AD-A059742] p0079 N79-14770
The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776
Stress and simulation in pilot training [AD-A066670] p0222 N79-25757
Flight simulator training, volume 2. A bibliography with abstracts [NTIS/PS-79/0277/8] p0222 N79-25758
Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844
PILOTED CENTRIFUGES
HUMAN CENTRIFUGES
PILOTLESS AIRCRAFT
NT DRONE AIRCRAFT
PILOTS
US Army aviation fatigue-related accidents, 1971-1977 [AD-A062486] p0171 N79-20725
PILOTS (PERSONNEL)
NT AIRCRAFT PILOTS
Evaluation of physiological indices during preflight medical examination of pilots p0188 A79-35138
Incidence of spinal disability amongst IAF pilots - Follow up of 38 cases p0201 A79-37133
Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0028 N79-11705
Long term pulmonary function patterns in the aviator: The thousand Aviator study p0028 N79-11708
Coronary atherosclerosis and fitness for flying p0029 N79-11711
Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
The significance of I wave abnormalities p0029 N79-11713
Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715

Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720
The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204] p0055 N79-13693
Methodology to assess psychological stress and its impact in the air combat environment [AD-A053474] p0057 N79-13707
Hemispheric asymmetry as related to pilot and radar intercept officer performance [AD-A068087] p0289 N79-31935
PINEAL GLAND
Epiphysis of rats under the combined action of hypoxia, hypercapnia and cooling p0256 A79-46680
PITCH (INCLINATION)
Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters [BMVG-PBWT-78-18] p0282 N79-30944
PITCH ANGLES
U PITCH (INCLINATION)
PITUITARY GLAND
Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
PITUITARY HORMONES
NT ADRENOCORTICOTROPIN (ACTH)
Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat p0005 A79-12474
Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and bovine growth hormones p0069 A79-19449
Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C14/-D-glucose in diabetic rats p0252 A79-44797
Studies on the bioassayable growth hormone-like activity of plasma p0267 A79-47848
Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-151853] p0051 N79-12697
Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-160242] p0219 N79-25736
Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
PLANET ORIGINS
U PLANETARY EVOLUTION
PLANETARY ATMOSPHERES
NT JUPITER ATMOSPHERE
Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres p0099 A79-22079
Exobiology and the origin of life --- organic compounds in planetary atmospheres and interstellar matter [NASA-CR-157988] p0081 N79-14782
PLANETARY ENVIRONMENTS
NT JUPITER ATMOSPHERE
NT MARS ENVIRONMENT
NT PLANETARY ATMOSPHERES
Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
PLANETARY EVOLUTION
HCN did not condense to give heteropolypeptides on the primitive earth p0133 A79-26542
Habitable zones about main sequence stars p0136 A79-27930
PLANETARY EXPLORATION
U SPACE EXPLORATION
PLANETARY EXPLORER
U OUTER PLANETS EXPLORERS
PLANETARY QUARANTINE
Public health considerations associated with a Mars surface sample return mission p0005 A79-12510

PLANETARY SURFACES		
NT MARS SURFACE		
PLANETS		
NT EARTH (PLANET)		
NT GAS GIANT PLANETS		
NT MARS (PLANET)		
PLANIGRAPHY		
U TOMOGRAPHY		
PLANKTON		
Determination of the secondary production and population dynamics of the zooplankton of the Lake Champlain ecosystem [PB-286094/8]	p0084 N79-15572	[NASA-CR-158506] p0190 N79-23625 Adaptive optimization of exchange of gases in plants in a sealed phytotron
Distribution of phytoplankton in North Carolina lakes [PB-286387/6]	p0084 N79-15573	p0313 N79-33806
Distribution of phytoplankton in Arkansas lakes [PB-292742/4]	p0240 N79-26768	
PLANKTON BLOOM		
U PLANKTON		
PLANNING		
NT MANAGEMENT PLANNING		
NT MISSION PLANNING		
NT REGIONAL PLANNING		
Some of the problems involved in planning biological experiments	p0312 N79-33805	
PLANTS (BOTANY)		
NT GRASSES		
NT SEA GRASSES		
Convective control of long-range coherence in plant growth regulation	p0006 A79-12515	
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration	p0229 A79-41704	
Importance of temperature control for HEFLEX, a biological experiment for Spacelab 1 --- plant gravitational physiology study	p0230 A79-41716	
Biological experiments carried out aboard the biological satellite Cosmos-936	p0230 A79-41717	
Influence of orbital flight conditions on formation of genitals in Muscari racemosum and Anethum graveolens	p0230 A79-41718	
Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue --- COSMOS 782	p0020 N79-11653	
Responses of crown gall tissue to the space environment: Tumor development and anatomy --- cosmos 782	p0020 N79-11654	
Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782	p0020 N79-11655	
Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782	p0020 N79-11656	
The morphogenetic responses of cultured totipotent cells of carrot (<i>Daucus carota L.</i>) at zero gravity --- cosmos 782	p0021 N79-11657	
The impact of sulfur dioxide on vegetation: A sulfur dioxide-ozone response model [PB-283604/7]	p0049 N79-12686	
Pacific Northwest Laboratory report for 1977 to the DOE assistant secretary for environment. Part 2: Ecological sciences [PNL-2500-PT-2]	p0053 N79-13677	
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582]	p0071 N79-14711	
Mechanism of plant virus inactivation in soil injected with municipal wastewater and treatment plant sludges [PB-287012/9]	p0107 N79-16513	
Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611]	p0175 N79-21744	
A study of the mechanism of thigmomorphogenesis in plants, with special reference to the role of ethylene and its significance to research with plants in space		
PLASMAS (PHYSICS)		
NT BETA PARTICLES		
PLASMOLYSIS		
Effects of regional hemoconcentration during LBNP on plasma volume determinations --- Lower Body Negative Pressure	p0265 A79-47326	
Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite	p0021 N79-11662	
PLASMONS		
A hypothesis of plasmonic absorption of RF energy by biological objects	p0233 A79-42506	
PLASTICS		
NT ACRYLIC RESINS		
NT POLYETHYLENES		
NT POLYTETRAFLUOROETHYLENE		
PLASTISOLS		
NT SMORE		
PLATINUM		
Use of platinum electrodes for the electrochemical detection of bacteria	p0131 A79-26146	
PLATINUM ALLOYS		
Metal bioelectrode polarization: A frequency and time domain analysis	p0176 N79-21755	
PLAYA LAKES		
U LAKES		
PLETHYSMOGRAPHY		
NT ELECTROPLETHYSMOGRAPHY		
Mechanics of breathing during graded exercise measured with the bodyplethysmograph	p0029 N79-11709	
PLEURAE		
Improved measurements of shear modulus and pleural membrane tension of the lung	p0236 A79-43702	
PLSS		
U PORTABLE LIFE SUPPORT SYSTEMS		
PNEUMOTHORAX		
Pneumothorax and flight personnel --- incidence, etiology and treatment	p0103 A79-23956	
POIKILOTERMIA		
NT FROGS		
POINT MATCHING METHOD (MATHEMATICS)		
U BOUNDARY VALUE PROBLEMS		
POINT SOURCES		
Crawford and Lavoisier on the method of development and place of formation of body heat [BLL-RTS-11228]	p0142 N79-18568	
POISONS		
NT ENDOTOXINS		
NT PESTICIDES		
POISSON PROCESS		
U STOCHASTIC PROCESSES		
POLAR REGIONS		
NT ARCTIC REGIONS		
Human psychophysiology in extremal conditions --- Russian book on polar region adaptation	p0048 A79-15977	
POLARIZATION (CHARGE SEPARATION)		
In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria	p0131 A79-26100	
Metal bioelectrode polarization: A frequency and time domain analysis	p0176 N79-21755	
POLICIES		
Assessing the efficacy and safety of medical technologies [PB-286929/5]	p0085 N79-15580	
POLLUTANTS		
U CONTAMINANTS		
POLLUTION		
NT AIR POLLUTION		
NT ENVIRONMENT POLLUTION		
NT NOISE POLLUTION		
NT THERMAL POLLUTION		
NT WATER POLLUTION		

POLLUTION CONTROL**SUBJECT INDEX****POLLUTION CONTROL**

Citric acid enhancement of copper sulfate toxicity
to blue-green algae and other nuisance organisms
[PB-289490/5] p0170 N79-20718

POLLUTION MONITORING

Water system microbial check valve development
[NASA-CR-151843] p0032 N79-11733

POLYACRYLATES**U ACRYLIC RESINS****POLYETHYLENES**

Trace contaminant studies of HSC adsorbent
[NASA-CR-160148] p0177 N79-21769

POLYMERS

Two-week studies of survivors from exposures to
pyrolysis gases p0066 A79-18307

Carbon suboxide and the genetic code --- in
biochemical evolution p0252 A79-44865

Polymers produced by heating an amino acid mixture
in sea water enriched with transition elements
p0254 A79-46461

POLYNUCLEOTIDES

Prebiotic condensation of oligonucleotide
p0204 A79-37945

POLYPEPTIDES

Identification of a tripeptidyl aminopeptidase in
the anterior pituitary gland - Effect on the
chemical and biological properties of rat and
bovine growth hormones p0069 A79-19449

HCN did not condense to give heteropolypeptides on
the primitive earth p0133 A79-26542

POLYSACCHARIDES**NT GLYCOGENS**

Attachment to autoclaved soil of bacterial cells
from pure cultures of soil isolates p0297 A79-51701

POLYTETRAFLUOROETHYLENE

Renal damage in mice following exposure to the
pyrolysis products of polytetrafluoroethylene
p0066 A79-18306

POPULATIONS

Estimating percentiles of nonnormal anthropometric
populations - Final report p0065 A79-18226

Variability in human body size p0032 N79-11736

Estimating percentiles of nonnormal anthropometric
populations [AD-A061151] p0122 N79-17535

Radar, Insect Population Ecology, and Pest
Management [NASA-CP-2070] p0147 N79-19592

The role of insect dispersal and migration in
population processes p0147 N79-19593

PORPHYRINS**NT CHLOROPHYLLS**

Porphyrin-like compounds genesis under simulated
abiotic conditions p0099 A79-22078

Metal porphyrins in pre-Cambrian deposits as a
probable evidence for early photosynthesis
p0165 A79-30695

PORTABLE EQUIPMENT

Portable device for detection of petit mal epilepsy
p0254 A79-46226

PORTABLE LIFE SUPPORT SYSTEMS

Microbiological evaluation of the mobile
biological isolator system [NASA-CR-162293] p0307 N79-32822

POSITION ERRORS

Perception of graphic displays of space
p0062 A79-18205

Perception of depth - Processing of simple
positional disparity as a function of viewing
distance p0139 A79-28197

POSITIONING

Visually estimating workpiece pose in a robot hand
using the feature points method p0269 A79-48018

An operator-aiding manipulator control system
p0269 A79-48020

POSITIVE IONS

Prebiotic condensation of oligonucleotide
p0204 A79-37945

POSTFLIGHT ANALYSIS

Skylab medical data evaluation program (SMEDEP)
[NASA-CR-160279] p0259 N79-28869

POSTULATES**U AXIOMS****POSTURE**

Systolic time intervals during combined hand
cooling and head-up tilt p0135 A79-27554

Changes in apparent body orientation and sensory
localization induced by vibration of postural
muscles - Vibratory myesthetic illusions
p0163 A79-30653

Mechanism for the regulation of human posture
during movements of the foot p0276 A79-50651

Cardiopulmonary readjustments in passive tilt
p0277 A79-50901

Control of vertical position after flights aboard
the Salyut-4 orbital station p0311 N79-33793

POTABLE LIQUIDS**NT POTABLE WATER**

A thermoelectric integrated membrane evaporation
system [ASME PAPER 78-ENAS-19] p0007 A79-12568

Microbial Check Valve for Shuttle
[ASME PAPER 78-ENAS-27] p0008 A79-12576

Four-man rated dual catalyst system for the
recovery of water from urine
[NASA-CR-152227] p0112 N79-16550

Microflora of water reclaimed in sealed compartments
p0193 N79-23638

POTASSIUM**NT POTASSIUM 40**

Exercise performance and hemodynamics during
dietary potassium depletion in dogs
p0067 A79-18959

Relationship between proton motive force and
potassium ion transport in Halobacterium
halobium envelope vesicles p0227 A79-40775

Mechanism of effects of microwaves on erythrocyte
permeability for potassium and sodium ions
p0075 N79-14743

Studying the state of cellular metal ions by the
extended X-ray absorption fine structure
[AD-A069799] p0279 N79-30914

POTASSIUM ISOTOPES**NT POTASSIUM 40**

POTASSIUM 40 Determination of muscle mass changes in legs from
K-40 measurements p0274 A79-49997

POTENTIAL ENERGY**NT BIOELECTRIC POTENTIAL****NT ELECTRIC POTENTIAL****POTENTIAL GRADIENTS**

Coupling of aspartate and serine transport to the
transmembrane electrochemical gradient for
sodium ions in Halobacterium halobium -
Translocation stoichiometries and apparent
cooperativity p0002 A79-10425

POTENTIOMETRIC ANALYSIS

Seating, console and workplace design - Seated
operator reach profiles p0036 A79-13188

POTENTIOMETRY**U POTENTIOMETRIC ANALYSIS****PRECAUTIONS****U ACCIDENT PREVENTION****PREDICTION ANALYSIS TECHNIQUES**

Predicting aircraft detectability
p0208 A79-38358

Predictive accuracy of Q-X/Q-T ratio, Q-Tc
interval, S-T depression and R wave amplitude
during stress testing --- heart pathology
p0225 A79-40464

An examination of statistical impact acceleration
injury prediction models based on -Gx
accelerator data from subhuman primates
[AD-A057276] p0026 N79-11690

The prediction of the existence or nonexistence of
coronary artery disease using routine clinical
laboratory measurement p0028 N79-11703

PREDICTIONS

NT LINEAR PREDICTION

NT PERFORMANCE PREDICTION

Some Bayesian inference procedures for use in developing an impact acceleration injury prediction model

[AD-A067228]

p0220 N79-25741

PREDICTORS

U PREDICTIONS

PREFLIGHT ANALYSIS

Evaluation of physiological indices during preflight medical examination of pilots

p0188 A79-35138

PREFLIGHT OPERATIONS

Pilot preflight briefing utilizing an interactive computer generated Voice Response System

p0167 A79-31887

PREHEATING

U HEATING

PRESERVING

Method and arrangement for the preparation of solid foodstuffs for long-term storage

[BLL-RTS-11445]

p0145 N79-18590

PRESSURE

NT ATMOSPHERIC PRESSURE

NT BLOOD PRESSURE

NT DIASTOLIC PRESSURE

NT HIGH PRESSURE

NT HYDROSTATIC PRESSURE

NT HYPERTENSION

NT HYPOXEMIA

NT INTRACRANIAL PRESSURE

NT INTRAOCCULAR PRESSURE

NT LOW PRESSURE

NT LUMINANCE

NT LUMINOUS INTENSITY

NT OXYGEN TENSION

NT PARTIAL PRESSURE

PRESSURE BREATHING

The influence of hyperbaric environment in combination with workload and confinement on human information processing

[DLR-PB-78-12]

p0280 N79-30926

Hyperbaric oxygenation. A bibliography with abstracts

[NTIS/PS-79/0744/7]

p0317 N79-33837

PRESSURE CHAMBERS

NT HYPERBARIC CHAMBERS

Energy expenditures of man during long exposure to a periodically changing atmosphere

p0312 N79-33799

PRESSURE EFFECTS

Capillary fragility during air exposure of man to 1-5 ATA and after decompression

p0010 A79-12863

Cardio-pulmonary response to shock

[AD-A065672]

p0196 N79-23659

Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness

p0244 N79-27825

Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth

p0244 N79-27826

A head injury model

p0286 N79-31918

Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids)

p0311 N79-33798

Energy expenditures of man during long exposure to a periodically changing atmosphere

p0312 N79-33799

PRESSURE GAGES

NT MANOMETERS

PRESSURE MEASUREMENTS

The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel

p0104 A79-23959

Telemetry of intracranial pressure

p0227 A79-41400

Analyses for noninvasive monitoring of arterial blood pressure by /I/ phono cuff-sphygmomanometry, for discrete measurements and /II/ arterial ultrasonic imaging, for continuous measurements

p0294 A79-51037

A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles

p0294 A79-51038

PRESSURE REDUCTION

NT EXPLOSIVE DECOMPRESSION

Capillary fragility during air exposure of man to 1-5 ATA and after decompression

p0010 A79-12863

Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression

p0185 A79-33806

Dynamics of the catalase activity of the blood of athletes under the influence of local decompression

p0271 A79-49699

Applied analysis of computer simulated decompression profiles

p0017 N79-10722

Early diagnosis for decompression sickness.

Changes in the blood found shortly after decompression. Part 2: Experiments on rats

[ML-1978-7] p0120 N79-17524

Effects of propranolol on Time of Useful Function (TUF) in rats --- tolerance to rapid decompression

[AD-A068535/4] p0283 N79-31896

Oxygen equipment and rapid decompression studies

[AD-A070285] p0289 N79-31937

PRESSURE SUITS

NT SPACE SUITS

An assessment of the RAE Type 'B' full pressure suit automatic head enclosure

p0044 A79-14432

Development of the Air Force S-1030 full pressure suit assembly

p0044 A79-14433

Joint testing of the RAF high altitude protective ensemble

p0044 A79-14434

Evaluation of assisted positive-pressure breathing on +Gz tolerance

p0266 A79-47336

Evolution of space suit technology

[IAF PAPER 79-92] p0302 A79-53293

Engineering test and evaluation during high G.

Volume 3: Anti-G suits

[AD-A059122] p0052 N79-12706

Flight test evaluation of an RAF high altitude

partial pressure protective assembly

[NASA-TM-72864] p0214 N79-24654

Microbiological evaluation of the mobile

biological isolator system

[NASA-CR-162293] p0307 N79-32822

PRESSURIZING

Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure

p0266 A79-47331

PRETESTS

U TESTS

PREVENTION

NT ACCIDENT PREVENTION

NT FIRE PREVENTION

The Canadian Forces Life Quality Improvement Programme

p0026 N79-11693

PRIMATES

NT CHIMPANZEES

NT HUMAN BEINGS

NT MONKEYS

Two primate biological facility module in Spacelab

[IAF PAPER 78-70] p0003 A79-11229

Primate cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram

p0104 A79-24065

PRIMITIVE EARTH ATMOSPHERE

Synthesis of organic compounds from carbon monoxide and water by UV photolysis

p0099 A79-22077

Porphyrin-like compounds genesis under simulated

abiotic conditions

p0099 A79-22078

HCN did not condense to give heteropolypeptides on the primitive earth

p0133 A79-26542

Synthesis of amino acids under primitive earth conditions in the presence of clay

- Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere p0203 A79-37930
 Incorporation of sulphur in chemical evolution p0203 A79-37938
 Inverse assimilation - A general principle of evolution of planetary surfaces p0207 A79-37989
 Carbon suboxide and the genetic code --- in biochemical evolution p0252 A79-44865
 A proposal concerning the origin of life on the planet earth p0253 A79-45641
 An ultraviolet light induced bacteriophage in Beneckea gazogenes --- organism growth on precambrian earth p0254 A79-46463
- PRINTED CIRCUITS**
NT LARGE SCALE INTEGRATION
- PRISMS**
 The influence of rapid prism adaptation upon fixation disparity p0231 A79-42230
- PRIVATE AIRCRAFT**
U GENERAL AVIATION AIRCRAFT
- PROBABILITY DENSITY FUNCTIONS**
NT NORMAL DENSITY FUNCTIONS
NT PEARSON DISTRIBUTIONS
- PROBES**
 Subcutaneous channeling probe [NASA-CASE-ARC-11091-1] p0025 N79-11684
- PROBLEM SOLVING**
 Study of pharmaceutical industrial problems [NASA-CR-160267] p0248 N79-27852
 Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
 Some of the problems involved in planning biological experiments p0312 N79-33805
- PROCEDURES**
NT CREW PROCEDURES (INFLIGHT)
- PROCESS CONTROL (INDUSTRY)**
 Robotic vision --- process control applications p0187 A79-34984
- PROCUREMENT**
NT GOVERNMENT PROCUREMENT
- PRODUCT DEVELOPMENT**
 New combined aspirator for sampling developed p0170 N79-20722
- PRODUCTION ENGINEERING**
 Selected examples of dispersal of arthropods associated with agricultural crop and animal production p0148 N79-19595
- PRODUCTION METHODS**
U PRODUCTION ENGINEERING
- PROFICIENCY**
U ABILITIES
- PROGRAM MANAGEMENT**
U PROJECT MANAGEMENT
- PROGRAMMED INSTRUCTION**
NT COMPUTER ASSISTED INSTRUCTION
- PROGRAMMING LANGUAGES**
NT MACHINE ORIENTED LANGUAGES
NT NATURAL LANGUAGE (COMPUTERS)
 Modeling and analysis using SAINT - A combined discrete/continuous network simulation language --- Systems Analysis of Integrated Network of Tasks for RPV p0004 A79-11480
- PROGRAMS**
NT APOLLO SOYUZ TEST PROJECT
NT ASSESS PROGRAM
NT NASA PROGRAMS
NT SEASAT PROGRAM
NT SKYLAB PROGRAM
NT TFRMNL CONFIGURED VEHICLE PROGRAM
NT U.S.S.R. SPACE PROGRAM
- PROJECT MANAGEMENT**
 Possible impact of radar on pest management operations p0148 N79-19599
- PROJECTS**
NT APOLLO SOYUZ TEST PROJECT
- PROLATE SPHEROIDS**
 Electromagnetic absorption in a multilayered model of man p0226 A79-40650
 An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals --- Specific Absorption Rate p0278 A79-51015
- PROSTHETIC**
 Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639
- PROOFS**
U PROVING
- PROPELLANTS**
NT SOLID PROPELLANTS
 Safety evaluation tests of personal protective equipment for ordnance operations [AD-A058987] p0053 N79-12712
- PROPHYLAXIS**
 Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
- PROPRIOCEPTION**
 Evaluation of kinesthetic-tactile displays using a critical tracking task p0119 N79-17516
- PROPRIOCEPTORS**
 The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems --- sensitivity of operators versus monitors to failures p0087 N79-15596
- PROSTATE GLAND**
 Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation p0239 N79-26765
- PROSTHETIC DEVICES**
 Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300
 Biocompatible materials, volume 2. A bibliography with abstracts [NTIS/PS-78/0675/5] p0019 N79-10736
 Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
 Prosthetic urinary sphincter [NASA-CASE-MFS-23717-1] p0077 N79-14756
 Microprocessor: Based prosthetic control [PB-286652/3] p0113 N79-16559
 Prosthetic EMG control enhancement through the application of man-machine principles p0117 N79-17505
 Compact artificial hand [NASA-CASE-NP0-13906-1] p0214 N79-24652
 Prosthesis coupling [NASA-CASE-KSC-11069-1] p0240 N79-26772
- PROTECTION**
NT ENVIRONMENT PROTECTION
NT EYE PROTECTION
NT RADIATION PROTECTION
NT RADIATION SHIELDING
NT THERMAL PROTECTION
 Solar radiation, light protection and tanning of human skin [BLL-RTS-11580] p0142 N79-18574
- PROTECTIVE CLOTHING**
NT HELMETS
NT PRESSURE SUITS
NT SPACE SUITS
 A biophysical model for evaluating auxiliary heating and cooling systems --- for protective clothing systems design [ASME PAPER 78-ENAS-33] p0008 A79-12581
 Firefighters Integrated Response Equipment System [ASME PAPER 78-ENAS-39] p0009 A79-12586
 Design considerations for inflatable head/neck restraint systems p0043 A79-14407
 Development of integrated tubing fabric for liquid conditioning undergarments p0044 A79-14415
 An overview of helicopter mission specific survival equipment

- p0183 A79-33625
Bioassay of thermal protection afforded by candidate flight suit fabrics
 p0298 A79-52280
Cold water survival suits for aircraf
 t p0298 A79-52282
Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies [SAND-77-2132] p0034 N79-11748
Safety evaluation tests of personal protective equipment for ordnance operations [AD-A058987] p0053 N79-12712
Translations on USSR science and technology: Biomedical and behavioral sciences, no. 51 [JPRS-72588] p0076 N79-14745
Liberation of carbon monoxide by man when working in protective gear p0076 N79-14748
Mechanisms of activated carbon degradation by perspiration [AD-A059872] p0080 N79-14777
Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521] p0081 N79-14780
Protective clothing and equipment for firefighters: Current standards and practices [PB-286990/7] p0113 N79-16557
Antiradiation suit and other special clothing at industrial safety exhibition p0114 N79-16793
Visual and optical assessment of gas protective face masks p0152 N79-19642
Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis p0153 N79-19662
Advanced life support equipment for nitrogen tetroxide environments p0169 N79-20432
Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment [AD-A065901] p0197 N79-23668
Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
A porcine bioassay study of the physiological effects of fiber and dye degradation products (PPD) on burn wound healing [AD-A066990] N79-25748
Evaluation of four thermally protective fabrics using the USAAFL bioassay method [AD-A067351] p0223 N79-25762
Aluminized firefighters' crash-rescue protective hood: Facepiece-visor redesign study [AD-A066492] p0223 N79-25764
Field evaluation of experimental crash-crew firefighter's facepiece [AD-A066544] p0223 N79-25765
Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946] p0223 N79-25766
The optical properties of smoke-protective devices [FAA-AM-78-41] p0242 N79-26784
Cold water survival suits for aircraf
 t [ARL/SYS-NOTE-56] p0261 N79-28882
Insulated firefighters' crash-crew rescue boots and components: Field and laboratory evaluation [AD-A068264] p0262 N79-29795
Improved airline-type supplied-air plastic suit [DPSU-78-30-12] p0282 N79-30943
Aluminized firemen's (fire proximity) handwear: Redesign of experimental prototype [AD-A069895] p0290 N79-31940
Optimal methods for physiologic research on clothing [AD-A071855] p0319 N79-33852
PROTECTIVE COATINGS
 Method and arrangement for the preparation of solid foodstuffs for long-term storage [BLR-RTS-11445] p0145 N79-18590
PROTECTORS
 NT EAR PROTECTORS
PROTEIN METABOLISM
 NT LIPID METABOLISM
The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs [IAP PAPER 78-51] p0002 A79-11221
In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400
Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425
The effect of plasmoidal slime on the metabolism of haploid cells of *Physarum flavicomum* and the respiration of isolated mitochondria p0105 A79-24513
Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antithrostatic hypokinesia p0193 N79-23635
Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
PROTEINS
 NT ADENOSINES
 NT ALBUMINS
 NT COENZYMES
 NT FIBRIN
 NT FIBRINOGEN
 NT GAMMA GLOBULIN
 NT GLOBULINS
 NT LIPOPROTEINS
 NT MELANIN
 NT NUCLEOTIDES
 NT OXYHEMOGLOBIN
 NT PEPTIDES
 NT POLYNUCLEOTIDES
 NT POLYPEPTIDES
 NT PROTOPROTEINS
 The growth of single crystals from proteins in gravity-free space [AIAA PAPER 79-0311] p0069 A79-19665
 Interaction between inositol hexaphosphate and carbobenzoxy peptide - A model for nucleic acid - Nonhistone chromosomal protein interaction p0100 A79-22082
 Effects of low temperature on in vivo and in vitro protein synthesis in *Escherichia coli* and *Pseudomonas fluorescens* p0131 A79-26141
 Beta-galactosidase and selective neutrality --- amino acid composition of proteins p0132 A79-26169
 An approach to the origin of self-replicating system. I - Intermolecular interactions p0204 A79-37948
 The point mutation process in proteins p0205 A79-37972
 Some characteristic features of the origin and evolution of the amino acid composition of proteins - A theoretical consideration p0206 A79-37973
 Are evolutionary rates really variable --- in vertebrate protein chemistry p0232 A79-42273
 On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei --- for mutational change in protein evolution p0253 A79-45640
 Inadequacy of prebiotic synthesis as origin of proteinous amino acids p0253 A79-45643
 Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors p0274 A79-50230
 Energy transduction in *Halobacterium halobium* p0300 A79-53000

- Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite** p0014 N79-10700
- A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4]** p0059 N79-13719
- A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2]** p0059 N79-13720
- Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5** p0107 N79-16515
- Analysis of visible spectra and thermodynamic parameters in hemeprotein systems** p0144 N79-18579
- Physiological effects of a high soybean protein diet in man** p0240 N79-26777
- Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems** p0246 N79-27834
- Effects of gravity on contractile proteins [NASA-CR-160303]** p0279 N79-30913
- PROTON BEAMS**
Relationship between proton motive force and potassium ion transport in Halobacterium halobium envelope vesicles p0227 A79-40775
- PROTOPLASM**
Ultrastructural development of the vestibular system under conditions of simulated weightlessness p0298 A79-52284
- PROTOPROTEINS**
The origin of life on earth - Recent studies p0134 A79-27335
- Evolution in open systems - Acquisition and conservation of information in bioids** p0207 A79-37987
- PROTOTYPES**
Spacecraft utensil/hand cleansing fixture [NASA-CR-151845] p0032 N79-11731
Spacecraft utensil/hand cleansing fixture, addendum [NASA-CR-151846] p0032 N79-11732
The proto-type wrist joint assembly TACPAW (Triple Axis Common Pivot Arm Wrist), phase 2 [NASA-CR-150885] p0093 N79-15635
- PROTOZOA**
NT PARAMECIA
- PROVING**
The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving [IZF-1978-16-PR-1] p0145 N79-18588
- PRUSSIC ACID**
U HYDROCYANIC ACID
- PSEUDORANDOM SEQUENCES**
Application of pseudo random binary sequence input to identification of respiratory control dynamics p0268 A79-48011
- PSYCHIATRY**
Psychiatric education in aerospace medicine p0202 A79-37712
- PSYCHOACOUSTICS**
Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection --- German book p0162 A79-29763
- PSYCHOLOGICAL EFFECTS**
NT ILLUSIONS
NT OCULOGRAVIC ILLUSIONS
NT OPTICAL ILLUSION
Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
- Consciousness alteration in space [AIAA PAPER 79-1430] p0187 A79-34853
- Cardiac changes during behavioral stress in dogs p0200 A79-36575
- Effects of partial sleep deprivation on psychological performance and behaviour p0200 A79-37130
- The influence of intermittent aircraft noise on sleep. I p0255 A79-46599
- Physical and mental working environment in a terminal based computer system [BLL-RTS-11634] p0197 N79-23665
- Stress and fatigue in the driving environment --- physiological and psychological effects of heat and noise experienced inside automobiles p0211 N79-24629
- PSYCHOLOGICAL FACTORS**
False hypothesis and the pilot --- aircraft accidents due to decision making errors [SAE PAPER 780528] p0001 A79-10399
- Vibration, performance, and personality --- vibration effects on human performance and psychological factors p0040 A79-13224
- Experimental and psychological investigations in aviation and astronautics --- Russian book p0041 A79-13998
- Role of autogenic training in psychophysiological conditioning of aviation school students p0098 A79-21244
- Engineering-psychological study of information imaging systems --- manual control of spaceship docking p0099 A79-21404
- Psychologists vs engineers --- flight simulators training requirements p0132 A79-26499
- Investigation of psychological compatibility of crew members of multiseat aircraft p0166 A79-31165
- Aeromedical aspects of flying training with special reference to instructor pupil relationship p0201 A79-37139
- Psychological training - One of the most important factors of enhancing the safety of space flights [IAF PAPER 79-A-24] p0303 A79-53426
- Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
- Variability in human body size p0032 N79-11736
- Effects of uncertainty on manual tracking performance --- visual tasks p0086 N79-15592
- Masculinity, femininity, androgyny. What really works at work [AD-A061177] p0156 N79-19683
- Human processing of information and the computerized mode of presentation: Ergonomic parameters [FOA-C-56018-R9] p0263 N79-29797
- Psychological selection of Spacelab payload specialists: The evaluation of German applicants [DLR-PB-78-29] p0281 N79-30936
- PSYCHOLOGICAL INDEXES**
U PSYCHOLOGICAL TESTS
PSYCHOLOGICAL TESTS
An Air Combat Effectiveness Study /ACES/ program p0040 A79-13222
- Psychological selection of payload astronauts p0047 A79-15488
- Locus of the effect of specific practice in continuous visual search p0129 A79-25099
- Chromatic border distinctness - Not an index of hue or saturation differences p0139 A79-28332
- A further investigation of visual dominance p0186 A79-33949
- Personality characteristics of pilots on EPPS, MPI and DOSEPU test. II - Comparison among pilots, non-pilot officers and aviation students p0210 A79-38822
- Relationship between the reproduction tactics and the major indices of speech retention-reproduction processes p0254 A79-46276
- Design, fabrication and utility of a flight oriented performance test p0271 A79-49728
- Information processing in humans, volume 3. A bibliography with abstracts [NTIS-PS-78/1154/0] p0058 N79-13710
- Quantification and validation of percept-genetic defense mechanism. A hierarchical analysis of

- behavior of pilots under stress [FOA-C-55020-R6] p0124 N79-17555
- Estimation of the operating characteristics of item response categories, 3: The normal approach method and the Pearson system [AD-A056747] p0145 N79-18587
- A description of the recent neuropsychological selection of pilots for land forces light aircraft [DLR-FB-78-11] p0151 N79-19633
- A construct validation of adaptive achievement testing [AD-A063148] p0173 N79-20742
- Shalit Perceptual Organisation and Reduction Questionnaire (SPORQ): The instrument, design, administration and scoring [FOA-C-55021-R6] p0249 N79-27859
- Personality profiles of divers involved in research activities [DLR-FB-78-11] p0281 N79-30935
- Shalit Perceptual Organization and Reduction Questionnaire (SPORQ). Report 2: Characteristics and reliability [FOA-C-55031-R6] p0309 N79-32836
- PSYCHOLOGY**
- NT COGNITIVE PSYCHOLOGY
- NT MILITARY PSYCHOLOGY
- NT PSYCHOACOUSTICS
- Applications of two-parameter decision theories in psychology [AD-A059010] p0052 N79-12705
- A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel [AD-A067826] p0281 N79-30933
- Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
- Methodological and operational aspects of programmed environment research [AD-A068587] p0289 N79-31936
- The psychologist in aircraft accident investigation --- pilot personality and performance [AD-A068587] p0291 N79-31946
- PSYCHOMETRICS**
- Psychological selection of payload astronauts [PB-287298/4] p0047 A79-15488
- Some variations on derivations by Primoff and their extensions [PB-287298/4] p0112 N79-16548
- PSYCHOMOTOR PERFORMANCE**
- Human Factors Society, Annual Meeting, 21st, San Francisco, Calif., October 17-20, 1977, Proceedings p0035 A79-13181
- Psychological selection of payload astronauts p0047 A79-15488
- Augmented feedback in adaptive motor skill-training p0062 A79-18208
- Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218
- Head acceleration and psychomotor performance --- related to crash accident survival rates p0135 A79-27559
- The inhibitory trace effect as a manifestation of the integrative activity of the human brain in performing voluntary motor acts p0159 A79-28737
- Analysis of electroencephalogram during psychomotor performance p0209 A79-38820
- Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task p0234 A79-43204
- Design, fabrication and utility of a flight oriented performance test p0271 A79-49728
- The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +G_{sub z} acceleration [FPRC-1362] p0248 N79-27856
- The effect of acceleration and seat back angle on performance of a reaction time task [FPRC-1364] p0248 N79-27857
- PSYCHOPHYSICS**
- NT PSYCHOACOUSTICS
- PSYCHOPHYSIOLOGY**
- NT WORKLOADS (PSYCHOPHYSIOLOGY)
- Psychophysiological forecasting of efficiency Intrinsic noise, threshold sensitivity, and adaptation of the retina Human psychophysiology in extremal conditions --- Russian book on polar region adaptation Role of autogenic training in psychophysiological conditioning of aviation school students Spatial frequency masking in human vision - Binocular interactions Guidelines for designing machines and devices for acoustic vibrations from the point of view of the physiological and psychological properties of the human organism Psychophysiological effects of aging: Developing a functional age index for pilots. 2: Taxonomy of psychological factors Information processing in humans, volume 2. A bibliography with abstracts [NTIS/PS-78/1153/2] Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight and on effectiveness of assimilation of flight training program Ergonomics laboratory studies pilots' stability for command --- psychophysiological characteristics Heart rate: Physiological characteristics and quantification methods for use in behavioral studies [CSIR-SR-PERS-276] Psychophysiological effects of aging: Developing a functional age index for pilots. 3: Measurement of pilot performance Perceived quantization error. Effect of quantization function, reconstruction function and number of levels Contributions of psychophysiological techniques to aircraft design and other operational problems [AGARD-AG-244] Psychoses Psychosis in air force flight personnel during the last 25 years Psychotherapy Evaluation of biofeed therapy [PB-287777/7] Psychophiles Effects of low temperature on in vivo and in vitro protein synthesis in Escherichia coli and Pseudomonas fluorescens Public health considerations associated with a Mars surface sample return mission A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures Literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it [AD-A056018] The role of physical examinations and education in prospective medicine Environment monitoring in the USSR and hygienic practice --- anthropogenic effects Health effects associated with diesel exhaust emissions, literature review and evaluation [PB-289817/9] Translations on USSR science and technology: Biomedical and behavioral sciences, no. 81 Mutagenic components of alternate energy sources [CONP-780636-8]
- p0010 A79-12867
p0043 A79-14373
p0048 A79-15977
p0098 A79-21244
p0232 A79-42284
p0236 A79-43608
p0054 N79-13685
p0058 N79-13709
p0074 N79-14735
p0121 N79-17529
p0121 N79-17531
p0123 N79-17546
p0124 N79-17556
p0290 N79-31941
p0103 A79-23957
p0123 N79-17543
p0131 A79-26141
p0005 A79-12510
p0104 A79-23958
p0104 A79-23958
p0025 N79-11686
p0026 N79-11694
p0121 N79-17528
p0171 N79-20727
p0249 N79-27860
p0280 N79-30923

PUBLIC LAW
NT LEGAL LIABILITY
PUBLICATIONS
U DOCUMENTS
PULMONARY CIRCULATION

Growth of pulmonary circulation in normal pig -
 Structural analysis and cardiopulmonary function
 p0067 A79-18961

Pulmonary blood volume and interventricular
 circulation time in physically trained and
 untrained subjects
 p0128 A79-24700

Cardiopulmonary readjustments in passive tilt
 p0277 A79-50901

The lung as a filter for microbubbles
 p0277 A79-50906

Noninvasive assessment of pulmonary hypertension
 using bubble ultrasonic ringing (BURP) method,
 part 2
 [PB-283935/5] p0051 N79-12699

Noninvasive assessment of pulmonary hypertension
 [PB-285121/0] p0057 N79-13701

A systematic approach to computer analysis of
 pulmonary vascular patterns
 p0176 N79-21756

The pulmonary circulation: Studies on alveolar
 hypoxia and vascular smooth muscle metabolism
 p0195 N79-23650

PULMONARY FUNCTIONS

Monitoring the state of the human airways by
 analysis of respiratory sound
 [IAF PAPER 78-66] p0003 A79-11227

Growth of pulmonary circulation in normal pig -
 Structural analysis and cardiopulmonary function
 p0067 A79-18961

Effects of exercise, vitamin E, and ozone on
 pulmonary function and lipid peroxidation
 p0068 A79-18965

Distribution of pulmonary ventilation and
 perfusion during short periods of weightlessness
 p0068 A79-18967

Changes in lung volume, lung density, and
 distribution of ventilation during hypobaric
 decompression
 p0185 A79-33806

Glucose metabolism in rat lung during exposure to
 hyperbaric O₂
 p0221 A79-36047

Improved measurements of shear modulus and pleural
 membrane tension of the lung
 p0236 A79-43702

Distribution of regional volumes and ventilation
 'in excised canine lobes
 p0236 A79-43703

A revised model of gas transport in human lungs
 p0253 A79-45768

Pulmonary functional tolerance to ionizing
 radiation - An experimental study
 p0256 A79-46601

Adaptation to chronic hyperoxia in the rat - A
 study of pulmonary surfactant, tissue levels of
 superoxide dismutases and histology
 p0256 A79-46603

Absence of effects of hypoxia on small airway
 function in humans
 p0268 A79-47851

Pulmonary function and maximum exercise responses
 following acute ozone exposure
 p0273 A79-49987

Lung inflation and longitudinal distribution of
 pulmonary vascular resistance during hypoxia
 p0277 A79-50905

Evidence for increased intrathoracic fluid volume
 in man at high altitude
 p0305 A79-54266

Specific Findings in Cardiology and Pulmonary
 Function with Special Emphasis on Assessment
 criteria for flying
 [AGARD-CP-232] p0028 N79-11705

Detection and supervision of obstructed
 respiratory flow in fliers. Advantages of
 debit-volume graphs
 p0028 N79-11707

Long term pulmonary function patterns in the
 aviator: The thousand Aviator study
 p0028 N79-11708

Technical evaluation report on the Aerospace
 Medical Panel London Specialists' Meeting, Fall
 1977 --- disease prevention, flight fitness, and

findings in cardiology and pulmonary function
 [AGARD-AR-131] p0171 N79-20729

Specific findings in cardiology and pulmonary
 function with special emphasis on assessment
 criteria for flying
 p0171 N79-20731

Effects of oxides on nitrogen, Carbon monoxide and
 photochemical oxidants on the ECG during
 exercise and on cardiopulmonary function
 [PB-291595/7] p0177 N79-21763

Cardio-pulmonary response to shock
 [AD-A065672] p0196 N79-23659

Pneumotachographic distinctions of external
 respiration in man in the presence of excess
 intrapulmonary pressure on ground level and at
 high altitudes
 p0245 N79-27827

Possibility of improving assessment of
 cardio-pulmonary function by submaximal exercise
 on a bicycle ergometer
 [BLI-RTS-11657] p0279 N79-30918

PULMONARY LESIONS

The effects of strong shock waves on mortality
 rates and percentages of pulmonary lesions in
 rats as a function of the number of exposures
 [NASA-TM-75598] p0053 N79-13676

Evidence for increased intrathoracic fluid volume
 in man at high altitude
 [AD-A065333] p0220 N79-25743

PULSATING FLOW

U UNSTEADY FLOW

PULSE DURATION

Changes in critical duration during dark-adaptation
 p0304 A79-54252

PULSE RECORDERS

U COUNTERS

PULSE WIDTH

U PULSE DURATION

PULSED LASERS

The development of laser exposure limits
 p0181 A79-32320

Suprathreshold retinal damage due to single 6
 picosecond 1060 nm laser light pulses
 p0266 A79-47330

PULSED RADIATION

NT ELECTROMAGNETIC PULSES

A sample volume tracking unit for pulsed Doppler
 echocardiography
 p0200 A79-36869

A mechanism for high-frequency electromagnetic
 field-induced biological damage
 p0231 A79-41847

PULSES

NT ELECTROMAGNETIC PULSES

NT PICOSECOND PULSES

PUMPS

NT BLOOD PUMPS

PUPIL SIZE

A method of evaluating the pupillary reaction to
 vestibular stimuli
 p0016 N79-10717

PUPILS

Evidence for the equivalent-background hypothesis
 in cones --- for dark adaptation thresholds
 p0232 A79-42233

Using color substitution pupil response to expose
 chromatic mechanisms
 p0265 A79-47116

PURIFICATION

NT AIR PURIFICATION

PURSUIT TRACKING

Tracking in two dimensions as a function of
 dimension priorities and tracking difficulty
 p0036 A79-13193

Depth perception and manual control
 p0038 A79-13207

Augmented feedback in adaptive motor skill training
 p0062 A79-18208

The effects of prediction, quickening, frequency
 separation, and percent of pursuit in
 perspective displays for low-visibility landing
 p0063 A79-18210

Cross-validation of regression equations to
 predict performance in a pursuit tracking task
 p0064 A79-18222

The effects of participatory mode and task
 workload on the detection of dynamic system
 failures
 p0098 A79-21156

Contrast effects on smooth-pursuit eye movement velocity p0104 A79-24068

Velocity precision in smooth pursuit eye movements p0129 A79-25399

Digital man-machine control systems - The effects of preview lag p0131 A79-26149

The role of perceived motion in smooth pursuit eye movements p0225 A79-40184

The effect of expectations on slow oculomotor control. I - Periodic target steps. II - Single target displacements p0225 A79-40185

Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task p0234 A79-43204

Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft p0236 A79-43675

Pilot-optimal augmentation of the air-to-air tracking task [AIAA 79-1747] p0252 A79-45388

Pursuit after-nystagmus p0271 A79-49484

Effect on performance of cycling deep body temperature between 37.0 and 37.6 C p0274 A79-49993

Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance p0299 A79-52327

Optokinetic reactions in man elicited by localized retinal motion stimuli p0304 A79-54251

PUSHING
A prediction model of arm push strength in the transverse plane p0037 A79-13195

PYRAZINES
NT AZINES

PYRIDINES
NT MITOCHONDRIA
NT THYMIDINE

PYROLYSIS
Statistical studies of animal response data from USP toxicity screening test method p0066 A79-18305

Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene p0066 A79-18306

Two-week studies of survivors from exposures to pyrolysis gases p0066 A79-18307

PYROMETRY
U TEMPERATURE MEASUREMENT

PYROLES
NT INDOLES
NT TRYPTOPHAN

Q

QUALIFICATIONS
Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976 [FAA-AM-78-25] p0144 N79-18582

QUALITY
NT RIDING QUALITY
NT WATER QUALITY

QUALITY CONTROL
Speech quality measurement [AD-A056272] p0033 N79-11745

Biomedical data validation through an on-line computer system [PB-285249/9] p0057 N79-13700

QUANTITATIVE ANALYSIS
Computer quantitation of angiographic images p0293 A79-51028

Quantitative analysis of selected bone parameters p0022 N79-11668

Quantitative review of human susceptibility to magnetic fields [UCID-17773] p0026 N79-11691

QUANTIZER
U COUNTERS

R

RABBITS
Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits p0134 A79-27120

RADAR
NT MOVING TARGET INDICATORS
NT SIDE-LOOKING RADAR
NT SURVEILLANCE RADAR
NT SYNTHETIC APERTURE RADAR
Radar, Insect Population Ecology, and Pest Management [NASA-CP-2070] p0147 N79-19592

RADAR DETECTION
Synthetic aperture radar operator tactical target acquisition research p0037 A79-13202

Target acquisition in realistic terrain p0037 A79-13203

The effect of increased monitoring load on vigilance performance using a simulated radar display p0236 A79-43674

RADAR EQUIPMENT
Capabilities of radar as they might relate to entomological studies p0148 N79-19598

RADAR IMAGERY
Visual cues in manual tracking of simulated targets p0103 A79-23792

RADAR MAPS
NT RADAR IMAGERY

RADAR OBSERVATION
U RADAR TRACKING

RADAR SCANNING
Real-time reconnaissance systems simulator p0139 A79-28175

RADAR TRACKING
Evolution of the man-machine interface in surveillance radar systems p0001 A79-10322

Possible impact of radar on pest management operations p0148 N79-19599

Radar observation of insects: Mosquitoes p0148 N79-19600

Visual search performance during simulated radar observation with and without a sweepline [AD-A068020] p0281 N79-30938

RADIANT FLUX DENSITY
NT LUMINANCE
NT LUMINOUS INTENSITY

RADIATION ABSORPTION
NT ELECTROMAGNETIC ABSORPTION
NT MOLECULAR ABSORPTION
NT ULTRAVIOLET ABSORPTION
NT X RAY ABSORPTION

RADIATION CHEMISTRY
NT PHOTOLYSIS

RADIATION DAMAGE
NT LASER DAMAGE
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669

Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves p0188 A79-35917

Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves p0188 A79-35918

Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708

A mechanism for high-frequency electromagnetical field-induced biological damage p0231 A79-41847

Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798

Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses

- Role of n-aminobenzoic acid in repairing UV and gamma radiation damage p0266 A79-47330
- Spermatogenesis in dogs during many years of chronic exposure to gamma radiation and in the aftereffect period p0301 A79-53211
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14727
- Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation p0073 N79-14728
- RADIATION DETECTORS p0312 N79-33804
- NT DOSIMETERS
- RADIATION DISTRIBUTION
- NT DIFFRACTION PATTERNS
- RADIATION DOSAGE
- Some advances in astronaut radiation dosimetry [IAP PAPER 78-67] p0003 A79-11228
- Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- The time parameter in exposures to microwave radiation --- rodent experiments on damage and recovery p0105 A79-24419
- Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
- Electromagnetic absorption in a multilayered model of man p0226 A79-40650
- Autoradiographic enhancement of mammograms p0227 A79-40773
- The dose rate of cosmic ray radiation received by a biological target in the stratosphere and at altitudes of satellite orbits p0233 A79-42623
- Time parameter in microwave irradiation --- rodent experiments on damage and recovery p0277 A79-50694
- Comparative analysis of causes of animal deaths during chronic exposure to gamma radiation and the aftereffect period p0016 N79-10718
- Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206 p0023 N79-11677
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57 [JPRS-72808] p0121 N79-17526
- Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631
- Dose-effect relationships for ultrasound irradiation of brain tissue p0242 N79-27812
- Problems related to the assessment of safe exposure levels for radio frequency and microwave radiation [ISS-P-78/7] p0248 N79-27855
- Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities [NUREG-CR-0494] p0259 N79-28873
- Cell biology basis for the life of an organism in the radiation field [ANL-TRANS-1152] p0261 N79-29786
- Metabolic and physical scaling in microwave/radiofrequency bioeffects studies [UR-3490-1561] p0316 N79-33831
- Health effects of low-level ionizing radiation [LBL-9018] p0316 N79-33834
- RADIATION EFFECTS
- NT LASER DAMAGE
- NT RADIATION DAMAGE
- NT RADIATION INJURIES
- Mechanism of the formation of phosphenes by X-rays p0006 A79-12516
- Light flashes in space --- cosmic ray interaction with astronaut visual system p0100 A79-22261
- Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna p0136 A79-27959
- Biological effects of electromagnetic fields p0184 A79-33712
- Effect of electromagnetic fields in long-, medium-, and short-wave ranges on biological objects p0185 A79-33713
- Cell mechanisms for the biological effects of electromagnetic fields p0188 A79-35569
- The Biostack experiment in the U.S. long duration test program p0227 A79-41230
- Preliminary results of Cytos experiment flows in Salyut VI - Investigations of Paramecium aurelia p0229 A79-41709
- A hypothesis of plasmonic absorption of RF energy by biological objects p0233 A79-42506
- Thermal effects during the exposure of ocular fundus tissues to laser radiation p0234 A79-43057
- Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite p0014 N79-10703
- State of spermatogenesis in rats flown aboard Kosmos-690 biosatellite p0014 N79-10704
- Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- Effect of accelerations combined with radiation on occurrence of gene mutations in the drosophila p0016 N79-10720
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- Biological effects of nonionizing electromagnetic radiation. Volume 2, number 4: A digest of current literature [AD-A055569] p0055 N79-13689
- Translations on USSR science and technology: Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606] p0074 N79-14736
- Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field p0074 N79-14737
- Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
- Effects of microwaves on catecholamine metabolism in the brain p0075 N79-14739
- Dependence of the functional activity of liver mitochondria on microwave radiation --- oxidative phosphorylation p0075 N79-14741
- Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions p0075 N79-14743
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- Effect on mice of microwaves in the non-thermal intensity region. Respiration, rectal temperature and mental reaction [FOA-C-54021-R2(H6)] p0120 N79-17523
- The effect of 17alpha-ethynodiol on the radiation sensitivity of mice p0141 N79-18557
- A technical review of the biological effects of non-ionizing radiation [PB-290166/8] p0171 N79-20728
- Effect of different doses of centimeter-band electromagnetic oscillations of bioluminescence of central nervous system and liver tissues p0172 N79-20738
- Biological effects of laser radiation, volume 1. A bibliography with abstracts [NTIS/PS-79/0019/4] p0176 N79-21760
- Biological effects of laser radiation, volume 2. A Bibliography with abstracts [NTIS/PS-79/0020/2] p0176 N79-21761

- Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630
- Studies on the microwave-induced auditory effect [PB-290598/2] p0213 N79-24648
- Dose-effect relationships for ultrasound irradiation of brain tissue p0242 N79-27812
- The combined effect of space flight factors and radiation on rat skeletal muscles p0244 N79-27821
- Cell biology basis for the life of an organism in the radiation field [ANL-TRANS-1152] p0261 N79-29786
- Biological effects of microwaves, volume 1. A bibliography with abstracts [NTIS/PS-79/0432/9] p0280 N79-30929
- Biological effects of microwaves, volume 2. A bibliography with abstracts [NTIS/PS-79/0433/7] p0280 N79-30930
- Space Biology and Aerospace Medicine, no. 4, 1979 [JPRS-74330] p0310 N79-33789
- Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation p0312 N79-33804
- Biological effects of nonionizing electromagnetic radiation, volume 3, number 4 [AD-A070242] p0315 N79-33826
- RADIATION EXPOSURE**
- U RADIATION DOSAGE**
- RADIATION HAZARDS**
- Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges p0129 A79-24878
- A hazard assessment method for the U.S. Army Microwave Radiation Protection Program p0129 A79-25304
- Laser eye protection for flight personnel p0135 A79-27555
- Laser safety bioeffects research - Histopathology of retinal effects p0138 A79-28169
- No harmful effects through infrared light emitting diodes p0184 A79-33650
- Health and safety hazards associated with solar concentration systems p0200 A79-36628
- On the measurement of hazardous e.m. fields radiated through an aperture p0233 A79-42486
- Protection against laser beams p0236 A79-43609
- Pulmonary functional tolerance to ionizing radiation - An experimental study p0256 A79-46601
- Aviation and radiation hazards p0271 A79-49727
- Protection standards for microwave and radiofrequency radiations p0300 A79-52878
- Nonionizing radiation protection special study: Infrared radiation hazard evaluation of the rotary forge, Watervliet Arsenal, Watervliet, New York, March - April 1978 [AD-A055643] p0055 N79-13691
- Evaluation of the risks involved in the application of tritium gas and measures which have to be taken [MLB-1978-6] p0122 N79-17541
- Problems related to the assessment of safe exposure levels for radio frequency and microwave radiation [ISS-P-78/7] p0248 N79-27855
- Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities [NUREG-CR-0494] p0259 N79-28873
- Some considerations of hazards in the use of lasers for artistic displays [PB-294513/7] p0281 N79-30931
- RADIATION INJURIES**
- Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
- The development of laser exposure limits p0181 A79-32320
- Thermally induced retina injury due to high doses of optical radiation p0278 A79-50974
- Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite p0014 N79-10702
- Effects of space flight on course of radiation lesions in rat lymphoid organs p0107 N79-16516
- Acceptable radiation levels in the ultraviolet visible infrared regions [IZP-1978-15] p0248 N79-27853
- RADIATION MEASUREMENT**
- A hazard assessment method for the U.S. Army Microwave Radiation Protection Program p0129 A79-25304
- Review of unfolding methods used in the US and their standardization for dosimetry [BNWL-SA-6503] p0307 N79-32828
- RADIATION MEASURING INSTRUMENTS**
- NT DOSIMETERS
- NT FLIR DETECTORS
- NT INFRARED INSTRUMENTS
- NT PHOTOMETERS
- RADIATION MEDICINE**
- NT RADIOBIOLOGY
- Computerized positron emission tomography /PET/ for the assessment of myocardial integrity p0293 A79-51031
- RADIATION PRESSURE**
- NT LUMINANCE
- NT LUMINOUS INTENSITY
- RADIATION PROTECTION**
- NT RADIATION SHIELDING
- A hazard assessment method for the U.S. Army Microwave Radiation Protection Program p0129 A79-25304
- Protection against laser beams p0236 A79-43609
- Protection standards for microwave and radiofrequency radiations p0300 A79-52878
- Nonionizing radiation protection special study: Infrared radiation hazard evaluation of the rotary forge, Watervliet Arsenal, Watervliet, New York, March - April 1978 [AD-A055643] p0055 N79-13691
- Antiradiation suit and other special clothing at industrial safety exhibition p0114 N79-16793
- Chemical protection against ionizing radiation: A survey of possible mechanisms [NBL-1977-8] p0122 N79-17540
- Radiation protection activities, 1977 [PB-290215/3] p0176 N79-21759
- Improved airline-type supplied-air plastic suit [DPSPN-78-30-12] p0282 N79-30943
- Radiation protection [GPO-35-583] p0283 N79-31899
- RADIATION RESISTANCE**
- U RADIATION TOLERANCE**
- RADIATION SHIELDING**
- Solar radiation, light protection and tanning of human skin [BLL-RTS-11580] p0142 N79-18574
- RADIATION SICKNESS**
- Intestinal autoflora as an indicator of severity of radiation lesion p0121 N79-17530
- RADIATION SOURCES**
- NT POINT SOURCES
- RADIATION SPECTRA**
- NT ABSORPTION SPECTRA
- NT INFRARED SPECTRA
- NT VIBRATIONAL SPECTRA
- Review of unfolding methods used in the US and their standardization for dosimetry [BNWL-SA-6503] p0307 N79-32828
- RADIATION THERAPY**
- Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051] p0017 N79-10728
- The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum p0018 N79-10731
- The design and construction of a miniature dosimeter for the study of the effects of air

RADIATION TOLERANCE

SUBJECT INDEX

cavities in radiation therapy	p0176 N79-21757	subjects by wireless telemetry	p0011 A79-12872
RADIATION TOLERANCE		A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590]	p0239 N79-26762
Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength --- corneal damage	p0002 A79-10648	RADIO TRACKING	
Extrapolation of pulsed light data in scanned displays --- laser radiation eye exposure limits	p0138 A79-28170	NT WILDLIFE RADIOLOCATION	
Low level laser light effects --- on vision	p0138 A79-28171	Radio tracking of a fin whale /Balaenoptera physalus/	p0061 A79-18008
Biological effects of electromagnetic fields	p0184 A79-33711	RADIO TRANSMISSION	
Effect of microwave radiation on the resistance of rats to transverse acceleration loading	p0275 A79-50496	An inductively powered telemetry system for temperature, EKG, and activity monitoring	p0228 A79-41424
Recovery of hemopoiesis in rats exposed to radiation during space flight	p0014 N79-10701	NT MICROWAVE EMISSION	
Hyperthermia in the treatment of cancer: A review of the radiobiological basis	p0017 N79-10729	NT MICROWAVES	
RADICALS		NT MILLIMETER WAVES	
NT HYDROXYL RADICALS		NT RADIO EMISSION	
RADIO COMMUNICATION		A technical review of the biological effects of non-ionizing radiation [PB-290166/8]	p0171 N79-20728
NT RADIO TELEMETRY		Effect of radio waves of a millimeter frequency range on the body of man and animals	p0172 N79-20735
RADIO EMISSION		RADIOACTIVE ISOTOPES	
Protection standards for microwave and radiofrequency radiations	p0300 A79-52878	NT AMERICIUM 241	
RADIO FREQUENCIES		NT CARBON 14	
NT LOW FREQUENCIES		NT COPPER ISOTOPES	
NT MICROWAVE FREQUENCIES		NT POTASSIUM 40	
NT SUPERHIGH FREQUENCIES		NT SODIUM 22	
NT ULTRAHIGH FREQUENCIES		NT TRITIUM	
Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges	p0129 A79-24878	RADIOBIOLOGY	
Single frequency RF powered ECG telemetry system	p0131 A79-26074	Some advances in astronaut radiation dosimetry [IAF PAPER 78-67]	p0003 A79-11228
Survey of microwave and radiofrequency biological effects and mechanisms	p0082 N79-15552	Life sciences and space research XVI; Proceedings of the Open Meetings of the Working Group on Space Biology, Tel Aviv, Israel, June 7-18, 1977	p0005 A79-12508
Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4]	p0241 N79-26779	An apparatus for studying electroretinographic responses under conditions of space flight	p0006 A79-12517
RADIO FREQUENCY DISCHARGE		Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/	p0006 A79-12518
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/8]	N79-25750	Biological study of tobacco seeds flown in the joint Apollo-Soyuz test-project	p0006 A79-12519
RADIO FREQUENCY HEATING		Genetic effects of balloon flight in Drosophila melanogaster	p0006 A79-12520
Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051]	p0017 N79-10728	Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour	p0047 A79-15493
Temperature uniformity in hyperthermal tumor therapy	p0018 N79-10730	Atlas of the dose characteristics of external ionizing radiation /Handbook/	p0098 A79-20669
A microangiographic study of the effect of hyperthermia on the rabbit bladder	p0018 N79-10732	The time parameter in exposures to microwave radiation --- rodent experiments on damage and recovery	p0105 A79-24419
The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (EMR)	p0018 N79-10733	Electromagnetic fields and power deposition in body-of-revolution models of man	p0130 A79-26007
RADIO FREQUENCY INTERFERENCE		Biological effects of electromagnetic fields	p0184 A79-33711
NT ATMOSPHERICS		Effect of electromagnetic fields in long-, medium-, and short-wave ranges on biological objects	p0185 A79-33713
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/8]	N79-25750	Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves	p0188 A79-35917
RADIO FREQUENCY RADIATION		Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves	p0188 A79-35918
U RADIO WAVES		Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria --- Rayleigh-Gans-Debye	p0233 A79-42448
RADIO INTERFERENCE		On the measurement of hazardous e.m. fields radiated through an aperture	p0233 A79-42486
U RADIO FREQUENCY INTERFERENCE			
RADIO PROBING			
Computerized positron emission tomography /PET/ for the assessment of myocardial integrity	p0293 A79-51031		
RADIO PROPAGATION			
U RADIO TRANSMISSION			
RADIO SIGNAL PROPAGATION			
U RADIO TRANSMISSION			
RADIO TELEMETRY			
Measurement of skin temperatures of active			

- Thermal effects during the exposure of ocular fundus tissues to laser radiation** p0234 A79-43057
- Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study** p0252 A79-44798
- Aviation and radiation hazards** p0271 A79-49727
- Effect of microwave radiation on the resistance of rats to transverse acceleration loading** p0275 A79-50496
- Time parameter in microwave irradiation --- rodent experiments on damage and recovery** p0277 A79-50694
- Role of n-aminobenzoic acid in repairing UV and gamma radiation damage** p0301 A79-53211
- Space biology and aerospace medicine, vol. 12, no. 5, 1978 [JPRS-72115]** p0013 N79-10698
- Laser eye protection for flight personnel, volume 1 [AD-A057417]** p0034 N79-11747
- Biological effects of laser radiation, volume 1. A bibliography with abstracts [NTIS/PS-79/0019/4]** p0176 N79-21760
- Biological effects of laser radiation, volume 2. A Bibliography with abstracts [NTIS/PS-79/0020/2]** p0176 N79-21761
- Biological effects of microwaves, volume 1. A bibliography with abstracts [NTIS/PS-79/0432/9]** p0280 N79-30929
- RADIOCHEMISTRY**
- Chemical protection against ionizing radiation: A survey of possible mechanisms [MEL-1977-8]** p0122 N79-17540
- RADIOGRAPHY**
- NT ANGIOGRAPHY**
- NT AUTORADIOGRAPHY**
- NT TOMOGRAPHY**
- Iodine imaging using spectral analysis --- radiography for visualization of small blood vessels** p0294 A79-51034
- Radiographic comparison of human lung shape during normal gravity and weightlessness** p0305 A79-54269
- Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone** p0022 N79-11666
- Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment** p0022 N79-11667
- A systematic approach to computer analysis of pulmonary vascular patterns** p0176 N79-21756
- RADIOIMMUNOASSAY**
- Obtaining growth hormone from calf blood [NASA-TM-75326]** p0283 N79-31895
- RADIOLOGY**
- Radiological diagnosis of spinal injuries and deformities** p0272 A79-49735
- Radiological examination of the Rachis and fitness for employment as a helicopter pilot** p0151 N79-19634
- Vertebral pains in helicopter pilots --- symptomology and radiology** p0153 N79-19656
- Computed axial tomography (CAT) [ISS-R-78/4]** p0262 N79-29791
- RADIOPATHOLOGY**
- Comparative analysis of causes of animal deaths during chronic exposure to gamma radiation and the aftereffect period** p0016 N79-10718
- Effects of long-term and chronic radiation on hemopoiesis** p0016 N79-10719
- Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite** p0108 N79-16517
- RADIOPROTECTIVE AGENTS**
- U ANTIRADIATION DRUGS**
- RADIOSENSITIVITY**
- U RADIATION TOLERANCE**
- RADIOTHERAPY**
- U RADIATION THERAPY**
- RAMAN SPECTROSCOPY**
- Raman spectroscopy of biological membranes and other biological systems** p0141 N79-18559
- RANDOM ACCESS MEMORY**
- The robot's eyes - Stereo vision system for automated scene analysis** p0004 A79-12006
- RANDOM DISTRIBUTIONS**
- U STATISTICAL DISTRIBUTIONS**
- RANDOM NOISE**
- Information-handling capacity of a human operator in detection of signals against a noisy background** p0081 N79-14989
- RANDOM PROCESSES**
- The human as a detector of changes in variance and bandwidth** p0117 N79-17496
- RANGE (EXTREMES)**
- Visual acuity of the aging hyperopic eye in the intermediate range** p0037 A79-13198
- RANGES (FACILITIES)**
- NT MISSILE RANGES**
- NT TEST RANGES**
- RAPID EYE MOVEMENT STATE**
- Effect of paradoxical sleep deprivation on the acquisition of sound discrimination** p0167 A79-31988
- RARE GASES**
- NT ARGON**
- NT HELIUM**
- NT NEON ISOTOPES**
- Analysis of inert gas exchange in the middle ear** p0017 N79-10723
- RATE METERS**
- U MEASURING INSTRUMENTS**
- RATES (PER TIME)**
- NT ACCELERATION (PHYSICS)**
- NT AIRSPEED**
- NT ANGULAR ACCELERATION**
- NT ANGULAR VELOCITY**
- NT ARRHYTHMIA**
- NT BRADYCARDIA**
- NT EVAPORATION RATE**
- NT FLOW VELOCITY**
- NT HEART RATE**
- NT HIGH ACCELERATION**
- NT HIGH GRAVITY ENVIRONMENTS**
- NT IMPACT ACCELERATION**
- NT LUMINANCE**
- NT LUMINOUS INTENSITY**
- NT PHYSIOLOGICAL ACCELERATION**
- NT RESPIRATORY RATE**
- NT SYSTOLE**
- Estimation of rate constants in the Michaelis-Menten model [AD-A070360]** p0307 N79-32824
- RATINGS**
- On the relationship between pilot rating and pilot dynamics. I - An experimental approach** p0066 A79-18474
- On the relationship between pilot rating and pilot dynamics. II - An analytical approach** p0066 A79-18475
- The influence of various physiological responses on ratings of perceived exertion before and after training** p0194 N79-23649
- RATIONS**
- NT SPACE RATIONS**
- RATIOS**
- NT SIGNAL TO NOISE RATIOS**
- RATS**
- Weight control and restraint of laboratory rats** p0133 A79-26584
- Effects of dietary composition on nutritional state in rats during exposure to high altitude** p0134 A79-27118
- Studies on thermoregulation in the rat** p0162 A79-30019
- Low tryptophan diet decreases brain serotonin and alters response to apomorphine** p0226 A79-40672
- Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G** p0227 A79-41185

Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782	p0230 A79-41714	reaction time and sensorimotor performance	p0086 N79-15589
Absence of gastric ulceration in rats after flight on the COSMOS 782	p0021 N79-11660	AAA gunnermodel based on observer theory --- predicting a gunner's tracking response	p0087 N79-15594
Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite	p0021 N79-11662	Discrete-time pilot model --- human dynamics and digital simulation	p0088 N79-15601
Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782	p0021 N79-11663	The effect of acceleration and seat back angle on performance of a reaction time task	p0248 N79-27857
Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite	p0021 N79-11664	REACTIVITY	
Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 1: Endochondral osteogenesis; medullary bone turnover	p0022 N79-11665	Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites	p0244 N79-27824
Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone	p0022 N79-11666	REACTOR CHEMISTRY	
Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment	p0022 N79-11667	U RADIOCHEMISTRY	
The lymph nodes and lymph vessels of the white rat [BLI-RTS-11309]	p0141 N79-18554	REAL TIME OPERATION	
Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation	p0239 N79-26765	Piloted aircraft simulation - Advantages, disadvantages, and practical problems	[SAE PAPER 780548] p0001 A79-10407
Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart	p0239 N79-26766	Real-time reconnaissance systems simulator	p0139 A79-28175
Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart	p0239 N79-26767	Contour detector and data acquisition system for the left ventricular outline	[NASA-CASE-ARC-10985-1] p0017 N79-10724
RAYLEIGH SCATTERING		REAL VARIABLES	
Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria --- Rayleigh-Gans-Debye	p0233 A79-42448	NT LINEAR EQUATIONS	
REACTION KINETICS		NT MEASURE AND INTEGRATION	
Photochemical transformations of the visual pigment rhodopsin	p0181 A79-32319	NT WEIGHTING FUNCTIONS	
A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution	p0204 A79-37957	REBREATHING	
Preliminary results of Cytos experiment flows in Salut VI - Investigations of Paramechium aurelia	p0229 A79-41709	Analysis of PCO_2 differences during rebreathing due to slow pH equilibration in blood	p0067 A79-18958
Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors	p0274 A79-50230	RECEPTORS (PHYSIOLOGY)	
Estimation of rate constants in the Michaelis-Menten model [AD-A070360]	p0307 N79-32824	NT CHEMORECEPTORS	
REACTION TIME		NT GRAVIRECEPTORS	
Effects of information processing requirements on reaction time of the eye	p0064 A79-18219	NT PHOTORECEPTORS	
Correlation of choice reaction time performance with biorhythmic criticality and cycle phase	p0102 A79-23471	NT PROPRIOCEPTORS	
Spatial summation in human vision - Simple reaction time measurements	p0265 A79-47115	NT THERMORECEPTORS	
Electrophysiological correlates of local muscular fatigue effects upon human visual reaction time	p0297 A79-52025	The sensory systems --- Russian book on neurophysiology and biophysics research	p0042 A79-14369
Target redundancy in visual search - Do repetitions of the target within the display impair processing	p0299 A79-52540	Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain	p0162 A79-29925
Effects of information processing requirements on reaction time of the eye [AD-A060099]	p0080 N79-14778	RECLAMATION	
Directional errors of movements and their correction in a discrete tracking task --- pilot		NT MATERIALS RECOVERY	
		NT WATER RECLAMATION	
		RECOGNITION	
		NT PATTERN RECOGNITION	
		NT SPEECH RECOGNITION	
		NT TARGET RECOGNITION	
		RECOMBINATION REACTIONS	
		Mechanisms of recombination and function of DNA in bacteria	[ORO-3941-33] p0072 N79-14715
		RECONNAISSANCE	
		NT AERIAL RECONNAISSANCE	
		RECOVERABLE SPACERCRAFT	
		NT SPACE SHUTTLES	
		RECYCLING	
		Waste treatment options for use in closed systems --- in space colonies	[AIAA PAPER 79-1409] p0187 A79-34843
		Evaluation of toxic effects of organic contaminants in recycled water	[PB-291379/6] p0190 N79-22760
		RED BLOOD CELLS	
		U ERYTHROCYTES	
		REDUCED GRAVITY	
		Effects of LBNP on catecholamines and adrenal cortex	p0110 N79-16532
		REDUCTION (CHEMISTRY)	
		Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution	p0205 A79-37968
		Cardiovascular studies of reducing and oxidizing agents	p0049 N79-12682
		REDUNDANCY	
		A model of human decisionmaking in fault diagnosis tasks that include feedback and redundancy	p0163 A79-30222
		REFERENCES (STANDARDS)	
		U STANDARDS	
		REFLECTED RADIATION	
		U REFLECTED WAVES	

REFLECTED RAYS		
U REFLECTED WAVES		
REFLECTED WAVES		
Visual performance assessment through clear and sunscreen-treated windows [AD-A059750]	p0080 N79-14775	
REFLECTION		
Internal cockpit reflections of external point light sources for the model YAH-64 advanced attack helicopter [AD-A056489]	p0033 N79-11744	
REFLEXES		
NT CAROTID SINUS REFLEX		
NT CONDITIONED REFLEXES		
NT HERING-BREWER REFLEX		
NT RESPIRATORY REFLEXES		
NT VESTIBULAR NYSTAGMUS		
Central and reflex mechanisms of controlling movements --- Russian book	p0251 A79-43950	
REFRACTORY MATERIALS		
NT CHROMIUM ISOTOPES		
REFRACTORY METALS		
NT CHROMIUM ISOTOPES		
REPRASIL (TRADEMARK)		
U FIBEFS		
REFUELING		
NT AIR TO AIR REFUELING		
REGENERATION (PHYSIOLOGY)		
Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science	p0228 A79-41702	
Strontium metabolism in the rebuilding of skeletal tissue [NASA-CR-160195]	p0216 N79-25713	
REGIONAL PLANNING		
Regional program for acquisition of medical experiments [NASA-CR-160121]	p0155 N79-19677	
REGIONS		
NT ARCTIC REGIONS		
NT HABITATS		
NT LUMBAR REGION		
NT POLAR REGIONS		
NT TEMPERATE REGIONS		
REGRESSION (STATISTICS)		
U REGRESSION ANALYSIS		
REGRESSION ANALYSIS		
Cross-validation of regression equations to predict performance in a pursuit tracking task	p0064 A79-18222	
Regression models of search time for color-coded information displays	p0209 A79-38359	
REGULATION		
U CONTROL		
REGULATIONS		
Radiation protection activities, 1977 [PB-290215/3]	p0176 N79-21759	
REGULATORS		
NT CURRENT REGULATORS		
NT OXYGEN REGULATORS		
REHEATING		
U HEATING		
REJECTION		
Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976 [FAA-AM-78-25]	p0144 N79-18582	
RELATIONSHIPS		
NT STRESS-STRAIN RELATIONSHIPS		
RELIABILITY ANALYSIS		
Subjective data in human reliability estimates	p0046 A79-15398	
A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings [FAA-AM-78-37]	p0123 N79-17547	
RELIABILITY CONTROL		
U QUALITY CONTROL		
U RELIABILITY ENGINEERING		
RELIABILITY ENGINEERING		
Computer-graphic design for human performance [AD-A055132]	p0046 A79-15399	
Man-machine reliability - A practical engineering tool	p0047 A79-15400	
REMOTE CONTROL		
Adaptive supervisory control of remote manipulation		
A comparison of control modes for time-delayed remote manipulation	p0046 A79-14987	
Computer augmented manual control of remote manipulators	p0163 A79-30223	
Manned simulations of the SRMS in SIMFAC	p0269 A79-48019	
Display aids for remote control of untethered undersea vehicles	p0089 N79-15611	
Terminal guidance sensor system [NASA-CASE-NPO-14521-1]	p0090 N79-15613	
Proximity-vision system for protoflight manipulator arm [NASA-CR-158652]	p0174 N79-20746	
Study of modeling and evaluation of remote manipulation tasks with force feedback [NASA-CR-158721]	p0197 N79-24658	
REMOTE HANDLING		
The mechanical properties of manipulation systems	p0242 N79-26785	
Simple models for the shuttle remote manipulator system [NASA-CR-151881]	p0231 A79-42017	
REMOTE REGIONS		
NT ARCTIC REGIONS		
REMOTE SENSORS		
Advanced teleoperators --- remote manipulation system	p0113 N79-16554	
The application of remote sensors to a model for fish mapping [INPE-1379-PE/176]	p0187 A79-34982	
Human/computer control of undersea teleoperators	p0071 N79-14712	
REMOTELY PILOTED VEHICLES		
Modeling and analysis using SAINT - A combined discrete/continuous network simulation language --- Systems Analysis of Integrated Network of Tasks for RPV	p0089 N79-15612	
Communications management by the remote system - An adaptive approach --- modeling of RPV autopilot/operator systems	p0004 A79-11480	
REMOVAL		
Effects of methylprednisolone sodium succinate on clearance of living E. coli from peripheral blood of dogs [AD-A062123]	p0169 N79-20717	
REMS		
U RAPID EYE MOVEMENT STATE		
RENAL FUNCTION		
A review of the consequences of fluid and electrolyte shifts in weightlessness [IAF PAPER 78-50]	p0002 A79-11220	
Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene	p0066 A79-18306	
Circadian rhythm of electrolyte excretion in healthy persons	p0257 A79-46681	
Compensatory reactions of the kidneys to orthostatic factors	p0015 N79-10708	
Changes in human renal function in passive head-up and head-down positions	p0072 N79-14722	
A compact low-volume, self-regenerating artificial kidney [PB-287808/0]	p0123 N79-17545	
Effect of acute hypoxia on some parameters of renal excretory function and renal hemodynamics	p0245 N79-27828	
REPETITION		
Target redundancy in visual search - Do repetitions of the target within the display impair processing	p0299 A79-52540	
REPORTS		
NT CONGRESSIONAL REPORTS		
Translations on USSR science and technology: Biomedical and behavioral sciences, no. 59. Effects of nonionizing electromagnetic radiation [JPRS-72956]	p0171 N79-20732	
REPRODUCTION (BIOLOGY)		
Reproductive adaptation in Drosophila exposed to		

REPRODUCTIVE SYSTEMS

SUBJECT INDEX

oxygen-enriched atmospheres	p0164 N79-30657	[PB-293183/0]	p0243 N79-27816
Quantitative analysis of mating behavior in aging male <i>Drosophila Melanogaster</i>	p0252 N79-44799	RESINS NT ACRYLIC RESINS	
The effect of 1 to 5 keV electrons on the reproductive integrity of microorganisms	p0147 N79-19025	RESOLUTION NT HIGH RESOLUTION NT IMAGE RESOLUTION	
REPRODUCTIVE SYSTEMS		RESONANCE NT ELECTRON PARAMAGNETIC RESONANCE NT MICROWAVE RESONANCE	
NT TESTES		Electromagnetic absorption in a multilayered model of man	p0226 N79-40650
REPUBLIC MILITARY AIRCRAFT			
U MILITARY AIRCRAFT			
RESCUE OPERATIONS			
Evaluation of the helicopter in aeromedical transfers	p0128 N79-24638	RESOURCES NT FORESTS	
Night rescue operation procedure over sea with bell UH-1D helicopters	p0148 N79-19609	NT GEOTHERMAL RESOURCES NT SPRINGS (WATER)	
An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation	p0148 N79-19612	RESPIRATION NT HIGH ALTITUDE BREATHING	
Human exposure to mechanical vibration at lying posture in the ambulance helicopter UH-1D	p0149 N79-19617	NT PRESSURE BREATHING	
Protective approaches in the moderation of the physiological effects of extreme ambient conditions in helicopter operations	p0149 N79-19618	Effect of decompression per se on nitrogen elimination	p0067 N79-18964
Advanced life support equipment for nitrogen tetroxide environments	p0169 N79-20432	Effect of physical conditioning on cardiac mitochondrial function	p0068 N79-18966
RESEARCH		Distribution of pulmonary ventilation and perfusion during short periods of weightlessness	p0068 N79-18967
NT DYNAMIC PROGRAMMING		The effect of plasmoidal slime on the metabolism of haploid cells of <i>Physarum flavidicomum</i> and the respiration of isolated mitochondria	p0105 N79-24513
NT MARKET RESEARCH		An improved method for inducing hypothermia and rewarming	p0267 N79-47339
NT MATHEMATICAL PROGRAMMING		The effect of the reduction of inspired gas density on external respiration	p0296 N79-51115
NT OPERATIONS RESEARCH		Influence of skin temperature on sweating and aerobic performance during severe work	p0305 N79-54268
RESEARCH AND DEVELOPMENT		Mechanics of breathing during graded exercise measured with the bodyplethysmograph	p0029 N79-11709
Imagery interpreter performance in the comparison of subjective estimates of photographic image quality	p0036 N79-13191	Density dependence of maximum expiratory flow	p0050 N79-12691
General activities related to medical research [TNO-MFT-PR-6]	p0262 N79-29793	Effect on mice of microwaves in the non-thermal intensity region. Respiration, rectal temperature and mental reaction	
RESEARCH MANAGEMENT		[POA-C-54021-H2(H6)]	p0120 N79-17523
Translations on USSR science and technology: Biomedical and behavioral sciences, no. 52 --- with emphasis on research management		Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals	
[JPRS-72604]	p0078 N79-14760	Metabolism of hydrazine	p0169 N79-20713
A complex system for planning scientific medical research	p0078 N79-14761	[AD-A062251]	p0169 N79-20716
Problem-oriented program approach to planning and management of medicine	p0078 N79-14762	The effects of brain ischemia on the control of breathing in unanesthetized goats	p0190 N79-23624
New principles of automation of biomedical research	p0078 N79-14763	External respiration and gas exchange reactions to exercise during rotation of man on a short-radius centrifuge	
The conception of the systems analytic approach to planning and organization of medical scientific research	p0078 N79-14764	Cardio-pulmonary response to shock	p0193 N79-23639
Current status and prospects of continued refinement of planning and coordination of scientific medical research	p0078 N79-14765	[AD-A065672]	p0196 N79-23659
The systems analytic approach to the problem of classification of scientific medical research	p0078 N79-14766	Medical science in Siberia: Oxygen exchange in the Far North	
Use of the systems analytic approach for organization and coordination of complex biomedical research	p0079 N79-14767	[NASA-TM-75391]	p0211 N79-24630
Biomedical application in space, pilot program in the southern California region	p0195 N79-23653	Respiration	p0247 N79-27845
[NASA-CR-160171]		Energy expenditures of man during long exposure to a periodically changing atmosphere	p0312 N79-33799
RESEARCH PROJECTS		External respiration and gas exchange reactions of man during rotation on a short-arm centrifuge	p0313 N79-33812
Four years of color research for visual displays --- human performance consideration for use in aircraft	p0039 N79-13210	RESPIRATORS Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies	
Relations between research and instruction in physiology and aerospace ergonomics in the military health services	p0104 N79-23960	[SAND-77-2132]	p0034 N79-11748
RESERVOIRS		RESPIRATORY DISEASES Early detection of disease: The correlation of the volatile organic profiles from patients with upper respiratory infections with subjects of normal profiles	
Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir		[NASA-CR-160100]	p0121 N79-17532
		RESPIRATORY IMPEDIMENT Detection and supervision of obstructed respiratory flow in fliers. Advantages of	

- debit-volume graphs p0028 N79-11707
- RESPIRATORY PHYSIOLOGY**
- Monitoring the state of the human airways by analysis of respiratory sound [IAF PAPER 78-66] p0003 A79-11227
 - Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
 - Thermoregulation in Macaca mulatta - A thermal balance study p0133 A79-27101
 - Effects of ozone inhalation on work performance and maximal oxygen uptake p0133 A79-27103
 - CO₂ and exercise tidal volume p0133 A79-27104
 - Mechanics of the regulation of the respiratory system in man p0160 A79-29258
 - Application of pseudo random binary sequence input to identification of respiratory control dynamics p0268 A79-48011
 - Responses of conscious rabbits to CO₂ at ambient temperatures of 5, 20, and 35 C p0277 A79-50904
 - The physiological role of surface-active substances in the lung p0296 A79-51117
 - Time course of O₂-pulse during various tests of aerobic power p0297 A79-52024
 - The role of lesser circulation hemodynamic changes in pulmonary gas exchange p0300 A79-53066
 - Tissular respiration of the brain after exposure of rats to hypoxic helium and oxygen mixtures at atmospheric and elevated pressure p0015 N79-10712
 - Evidence for the neural regulation of respiration During low intensity exercise in man p0144 N79-18578
 - User's instructions for the Grodins' respiratory control model using the UNIVAC 1110 remote batch and demand processing [NASA-CR-160229] p0212 N79-24635
- RESPIRATORY RATE**
- Influence of exercise and CO₂ on breathing pattern of normal man p0237 A79-43704
 - Mathematical model of the respiration rhythm generation process p0254 A79-46268
 - Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill p0024 N79-11681
 - Follow-up and transversal study of vital capacity and FEV₁ sub values among personnel of the Belgian Army forces p0028 N79-11706
- RESPIRATORY REFLEXES**
- NT HERING-BREWER REFLEX
 - Abolition of a viscerosomatic reflex during oxygen deprivation p0227 A79-41187
 - Evaluation of assisted positive-pressure breathing on +Gz tolerance p0266 A79-47336
- RESPIRATORY SYSTEM**
- NT BRONCHI
 - NT DIAPHRAGM (ANATOMY)
 - NT LUNGS
 - NT TRACHEA
 - Growth of pulmonary circulation in normal pig - Structural analysis and cardiopulmonary function p0067 A79-18961
 - Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances p0127 A79-24628
 - Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251
 - Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0028 N79-11705
- Evaluation of exercise-respiratory system modifications and preliminary respiratory-circulatory system integration scheme [NASA-CR-160221] p0212 N79-24639
- Physiological system integrations with emphasis on the respiratory-cardiovascular system [NASA-CR-160230] p0213 N79-24643
- Investigations of respiratory control systems simulation [NASA-CR-160213] p0218 N79-25726
- Evaluation of exercise-respiratory system modifications and integration schemes for physiological systems [NASA-CR-160223] p0219 N79-25733
- Techniques of cumulative quantitative characterization of the thorax using audiosonic methods p0240 N79-26769
- Pneumotachographic distinctions of external respiration in man in the presence of excess intrapulmonary pressure on ground level and at high altitudes p0245 N79-27827
- Toxicity of oxygen mixed with helium p0245 N79-27829
- Respiration p0247 N79-27845
- RESPONSES**
- NT DYNAMIC RESPONSE
 - NT GALVANIC SKIN RESPONSE
 - NT HEMODYNAMIC RESPONSES
 - NT MODAL RESPONSE
 - NT PHYSIOLOGICAL RESPONSES
 - NT TRANSIENT RESPONSE
 - Effects of amphetamine on response selection and response execution processes in choice reaction tasks [IZP-1978-8] p0309 N79-32839
- REST**
- NT BED REST
 - Limb blood flow - Rest and heavy exercise in sitting and supine positions in man p0235 A79-43208
 - Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers p0030 N79-11717
- RESTRAINTS**
- U CONSTRAINTS
- RETARDANTS**
- NT FLAME RETARDANTS
- RETARDING**
- Suppression of the immune response by ultrasound p0142 N79-18560
- RETENTION (PSYCHOLOGY)**
- Short-term memory factors in ground controller/pilot communication p0181 A79-32626
 - Retention and transfer of training on a procedural task interaction of training strategy and cognitive style [AD-A058966] p0052 N79-12704
 - Individual differences in knowledge acquisition from maps [AD-A065040] p0196 N79-23663
 - A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983] p0308 N79-32833
- RETINA**
- NT FOVEA
 - NT VISUAL PIGMENTS
 - Mechanism of the formation of phosphenes by X-rays p0006 A79-12516
 - The equivalent background and retinal eccentricity p0104 A79-24066
 - Laser safety bioeffects research - Histopathology of retinal effects p0138 A79-28169
 - Smooth pursuit eye movements - Is perceived motion necessary p0139 A79-28375
 - The development of laser exposure limits p0181 A79-32320
 - Thermal activation of the visual transduction mechanism in retinal rods p0230 A79-41746
 - Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses

- Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0266 A79-47330
- Thermally induced retina injury due to high doses of optical radiation p0266 A79-47331
- Orientation relative to the retina determines perceptual organization p0278 A79-50974
- Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449] p0056 N79-13698
- Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation [AD-A063852] p0189 N79-22756
- Experimental and theoretical investigations concerning a frequency filter behavior of the human retina regarding electric pulse currents [NASA-TM-75372] p0314 N79-33822
- RETINAL ADAPTATION**
- NT DARK ADAPTATION
- NT LIGHT ADAPTATION
- Intrinsic noise, threshold sensitivity, and adaptation of the retina p0043 A79-14373
- Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319
- Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
- Retinal site of transient tritanopia p0256 A79-46623
- Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation [AD-A063852] p0189 N79-22756
- Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation p0192 N79-23632
- Restoration of color perception after deadapting flashes p0193 N79-23640
- RETINAL IMAGES**
- Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image p0100 A79-22771
- The perceived direction of the binocular image p0104 A79-24069
- The interpretation of visual motion --- Book p0186 A79-34424
- Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
- Motion and vision. I - Stabilized images of stationary gratings p0278 A79-50986
- Optokinetic reactions in man elicited by localized retinal motion stimuli p0304 A79-54251
- RETRIEVAL**
- NT INFORMATION RETRIEVAL
- A head-up display for mid-air drone recovery p0090 N79-15615
- REUSABLE SPACECRAFT**
- NT SPACE SHUTTLES
- REVERSE TIME**
- U REACTION TIME
- REVISONS**
- Modifications to the steady-state 41-node thermoregulatory model including validation of the respiratory and diffusional water loss equations [NASA-CR-160219] p0219 N79-25738
- RH-2 HELICOPTER**
- U OH-1 HELICOPTER
- RHEOLOGY**
- Development and application of resistive pulse spectroscopy: Studies on the size, form and deformability of red blood cells [LBL-8640] p0280 N79-30924
- RHEOMETERS**
- Reliability of determining the cardiac output by the method of quadrupole chest impedance
- rheography p0098 A79-21243
- Possibilities and perspectives of tetrapolar transthoracic impedance rheophethysmography in noninvasive studies of hemo- and cardiodynamics p0296 A79-51118
- RHYTHM (BIOLOGY)**
- NT CIRCADIAN RHYTHMS
- Physiological biorhythms as a correlate of pilot error accidents and incidents p0065 A79-18228
- Structure of biorhythms as one of the criteria for physiological adaptability of the human organism p0097 A79-20653
- Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0102 A79-23471
- Rhythms in human performance - 1-1/2-hour oscillations in cognitive style p0210 A79-39601
- RIBONUCLEIC ACIDS**
- Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
- Evolution of transfer RNA p0206 A79-37975
- Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature p0206 A79-37976
- Subcellular organisms and evolution of cell structure p0206 A79-37978
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- RICHARDSON-DUSHMAN EQUATION**
- U TEMPERATURE EFFECTS
- RIDING QUALITY**
- A model for predicting human discomfort response to combined noise and vertical vibration p0156 N79-19685
- Human discomfort response to noise combined with vertical vibration [NASA-TP-1374] p0190 N79-22761
- RIEMANN INTEGRAL**
- U MEASURE AND INTEGRATION
- RIGID BODIES**
- U RIGID STRUCTURES
- RIGID STRUCTURES**
- Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements [ASME PAPER 78-WA/BIO-5] p0069 A79-19759
- RISK**
- Prospective Medicine Opportunities in Aerospace Medicine --- conferences [AGARD-CP-231] p0026 N79-11692
- Evaluation of cardiac risk and subject response to ameliorative efforts p0031 N79-11723
- The impact of coronary vascular risk factors on professional aircrew license loss in the United Kingdom p0031 N79-11724
- Risks from various products used in paint spraying [BLL-RTS-11499] p0142 N79-18569
- The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- RNA**
- U RIBONUCLEIC ACIDS
- ROBOTS**
- The robot's eyes - Stereo vision system for automated scene analysis p0004 A79-12006
- Overview of the use of robots in space missions [DGLR PAPER 78-154] p0042 A79-14099
- Adaptive control of a robotic manipulator p0046 A79-15001
- Robots and artificial intelligence --- Russian book p0061 A79-17569
- Multi-PIERRE - A learning robot system p0066 A79-18425
- Control of robot manipulators from the modeling of their dynamics --- French thesis p0101 A79-23427
- Object-handling system for manual industry p0101 A79-23464

- Control systems for robots and manipulators ---
Russian book p0134 A79-27303
- ISAAC-1 - A color sensing robot p0138 A79-28168
- Adaptive locomotion of a multilegged robot over rough terrain p0163 A79-30217
- Robotic vision --- process control applications p0187 A79-34984
- Some properties of conservative systems --- walking robot model p0221 A79-35942
- Stabilization of the horizontal motion of a bipedal walking robot p0251 A79-44081
- Visually estimating workpiece pose in a robot hand using the feature points method p0269 A79-48018
- Goal-directed mechanics of controlled manipulators --- Russian book p0275 A79-50447
- Stereo 3-D perception for a robot p0019 N79-10740
- General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4] p0113 N79-16556
- Advanced industrial robot control systems [PB-287273/7] p0113 N79-16558
- The development of a six degree-of-constraint robot performance evaluation test p0117 N79-17504
- Proximity-vision system for protoflight manipulator arm [NASA-CR-158652] p0197 N79-24658
- ROCKET FLIGHT**
- Development of space biology experiments for the Space Shuttle - A student's perspective [AAS PAPER 78-134] p0099 A79-21252
- ROCKET PROPELLED SLEDS**
- Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PB-289951/6] p0179 N79-21776
- RODENTS**
- NT MICE
- NT RABBITS
- NT RATS
- BODS
- Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons p0232 A79-42234
- ROLL**
- Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972
- Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
- The effects of closed loop tracking on a subjective tilt threshold in the roll axis p0090 N79-15620
- Roll tracking effects of G-vector tilt and various types of motion washout p0091 N79-15622
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters [BSVG-PBWT-78-18] p0282 N79-30944
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- ROLL CONTROL**
- U LATERAL CONTROL
- ROOMS**
- NT CLEAN ROOMS
- ROOTS OF EQUATIONS**
- Bandpass channels, zero-crossings, and early visual information processing [AD-A062338] p0170 N79-20724
- ROTARY DRIVES**
- U MECHANICAL DRIVES
- ROTARY WING AIRCRAFT**
- NT HELICOPTERS
- NT MILITARY HELICOPTERS
- NT UH-1 HELICOPTER
- ROTARY WINGS**
- In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
- ROTATING**
- U ROTATION
- ROTATING BODIES**
- NT ROTARY WINGS
- Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements [ASME PAPER 78-WA/BIO-5] p0069 A79-19759
- ROTATING ENVIRONMENTS**
- Estimated body rotation as a predictor of motion sickness susceptibility p0273 A79-49990
- ROTATING MIRRORS**
- Dynamics of an image viewed through a rotating mirror p0221 A79-36365
- ROTATING VEHICLES**
- U ROTATING BODIES
- ROTATION**
- NT AUTOROTATION
- Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
- Modeling of visual-vestibular interaction and the fast components of nystagmus p0050 N79-12692
- External respiration and gas exchange reactions of man during rotation on a short-arm centrifuge p0313 N79-33812
- ROTATIONAL FLOW**
- U FLUID FLOW
- ROTORS**
- NT ROTARY WINGS
- RPV
- U REMOTELY PILOTED VEHICLES
- RUBBER
- NT ELASTOMERS
- RULES**
- NT INSTRUMENT FLIGHT RULES
- RUNNING**
- Thermoregulation in swimmers and runners p0227 A79-41186
- S**
- S BAND**
- U SUPERHIGH FREQUENCIES
- U ULTRAHIGH FREQUENCIES
- SACCADIC EYE MOVEMENTS**
- Saccadic eye movements and visual stability p0035 A79-13075
- How does the saccadic eye movement controller adapt for pathological states p0046 A79-14961
- Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218
- The trajectories of saccadic eye movements p0065 A79-18250
- Omnidirectional increase in threshold for image shifts during saccadic eye movements p0139 A79-28198
- Saccadic velocity characteristics - Intrinsic variability and fatigue p0165 A79-30663
- Oculomotor factors in visual perceptual response efficiency p0209 A79-38361
- Dynamics of the eye and head during movement between displays - A qualitative and quantitative guide for designers p0209 A79-38362
- An analysis of the saccadic system by means of double step stimuli p0270 A79-49480
- Latency of peripheral saccades p0278 A79-50987
- Upper-velocity threshold for detection of movement p0299 A79-52541
- SACCHARIDES**
- U CARBOHYDRATES

SACCHAROMYCES		
Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of <i>Saccharomyces cerevisiae</i>	p0162 A79-30125	p0057 N79-13700
SAFETY		
NT AIRCRAFT SAFETY		
NT FLIGHT SAFETY		
NT INDUSTRIAL SAFETY		
SAFETY DEVICES		
NT AIR BAG RESTRAINT DEVICES		
NT EJECTION SEATS		
NT HELMETS		
NT SPACE SUITS		
Design considerations for inflatable head/neck restraint systems	p0043 A79-14407	p0122 N79-17533
An inflatable restraint system --- for helicopter crash protection	p0044 A79-14408	p0174 N79-20745
Oral/nasal breathing systems in the year 2000	p0183 A79-33621	p0192 N79-23629
An overview of helicopter mission specific survival equipment	p0183 A79-33625	p0229 A79-41709
Current trends in UK military aircrew survival equipment	p0183 A79-33633	p0243 N79-27819
The fitting of Canadian Forces aircrew helmets - Why the difference	p0184 A79-33645	p0310 N79-33791
Whole body response research program [PB-286151/6]	p0093 N79-15640	p0311 N79-33792
Test and evaluation of head restraints, seat backs, and anchorages in vehicles subjected to rear impact collision	[PB-289779/11] p0178 N79-21773	Control of vertical position after flights aboard the Salyut-4 orbital station
Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1	[PB-290328/4] p0178 N79-21775	p0311 N79-33793
Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment	[AD-A065901] p0197 N79-23668	
A subhuman primate restraint system [AD-A069607]	p0279 N79-30915	
SAFETY FACTORS		
Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength --- corneal damage	p0002 A79-10648	
High 'Q' escape protection --- pilot restraint during high speed ejection	p0044 A79-14428	
The helmet protects the aviator's head - Or does it	p0044 A79-14429	
Ejection problems and injuries - Their causes, effects and treatments, and suggestions for preventive measures	p0267 A79-47338	
Evaluation of occupant protection devices and restraint systems	[PB-284299/5] p0053 N79-12713	
Effects of deceleration and rate of deceleration on live seated human subjects	[PB-284653/3] p0057 N79-13702	
Evaluation of the risks involved in the application of tritium gas and measures which have to be taken	[MBL-1978-6] p0122 N79-17541	
SAFETY MANAGEMENT		
A hazard assessment method for the U.S. Army Microwave Radiation Protection Program	p0129 A79-25304	
Protection standards for microwave and radiofrequency radiations	p0300 A79-52878	
Development of recommendations to improve controls operability	[PB-284433/0] p0053 N79-12714	
SAILPLANES		
U GLIDERS		
SALINITY		
The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus <i>Aspergillus</i>	p0005 A79-12512	
SALMONELLA		
Biomedical data validation through an on-line		
computer system		
[PB-285249/9]		
SALYUT SPACE STATION		
Preliminary results of Cytos experiment flows in Salyut VI - Investigations of <i>Paramechium aurelia</i>	p0229 A79-41709	
Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53486		
Man in space and on earth [NASA-TM-75602]	p0122 N79-17533	
Salyut-6--Soyuz-29: Our commentary, the crew and the station	[NASA-TM-75393] p0174 N79-20745	
Studies of microbial flora and immunity of Salyut-3 crew		
	p0192 N79-23629	
Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station		
Studies of venous circulation in the crew of the Salyut-5 orbital station	p0243 N79-27819	
Fluid-electrolyte metabolism in the crew of Salyut-4	p0310 N79-33791	
Control of vertical position after flights aboard the Salyut-4 orbital station	p0311 N79-33792	
SAMPLES		
NT MARS SURFACE SAMPLES		
SAMPLING		
NT AIR SAMPLING		
Automated biowaste sampling system feces monitoring system	[NASA-CR-160301] p0281 N79-30937	
SARCOMA		
U CANCER		
SATAN (SENSOR)		
U TERRAIN ANALYSIS		
SATELLITE ORBITS		
The dose rate of cosmic ray radiation received by a biological target in the stratosphere and at altitudes of satellite orbits	p0233 A79-42623	
SATELLITE SOLAR POWER STATIONS		
Health maintenance and health surveillance considerations for an SPS space construction base community	[AAS PAPER 78-176] p0099 A79-21273	
SATELLITE TEMPERATURE		
Importance of temperature control for HEFLEX, a biological experiment for Spacelab 1 --- plant gravitational physiology study	p0230 A79-41716	
SATELLITE TRACKING		
Wildlife monitoring program plan	[NASA-TM-78578] p0190 N79-23626	
SATELLITE-BORNE INSTRUMENTS		
Instrumentation for controlling and monitoring environmental control and life support systems	[ASME PAPER 78-ENAS-40] p0009 A79-12587	
SATELLITES		
NT BIOSATELLITES		
NT COSMOS SATELLITES		
NT COSMOS 782 SATELLITE		
NT COSMOS 936 SATELLITE		
NT INTERCOSMOS SATELLITES		
NT ORBITAL SPACE STATIONS		
NT ORBITAL WORKSHOPS		
SATURATION		
Chromatic border distinctness - Not an index of hue or saturation differences	p0139 A79-28332	
SCALING LAWS		
The measurement and scaling of workload in complex performance	[FAA-AM-78-34] p0125 N79-17558	
SCANNING		
NT RADAR SCANNING		
SCATTERING		
NT ACOUSTIC SCATTERING		
NT BACKSCATTERING		
NT LIGHT SCATTERING		
NT RAYLEIGH SCATTERING		
NT X RAY SCATTERING		
SCATTERING FUNCTIONS		
Accuracy of RGD approximation for computing light		

scattering properties of diffusing and motile bacteria --- Rayleigh-Gans-Debye	p0233 A79-42448	SEISMOCARDIOGRAPHY Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiosignals
SCENE ANALYSIS Visual motion perception by intelligent systems	p0300 A79-52691	SELECTION NT PERSONNEL SELECTION NT PILOT SELECTION Visual information processing
A theoretical and experimental analysis of the outside world perception process	p0091 N79-15625	Magnitude estimation as a hearing aid selection procedure
SCENEDESMUS Effects of electromagnetic field induction on development of the green algae, scenedesmus quadricauda (Turpin) Breb. and composition of free amino acids in its biomass and medium	p0075 N79-14740	SELENIUS Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4]
SCHEDULING NT PREDICTION ANALYSIS TECHNIQUES Recurrent training/supernumerary system	p0041 A79-13283	SELF DEPLOYING SPACE STATIONS U SPACE STATIONS
SCHEMATICS U CIRCUIT DIAGRAMS		SELF REGULATING U AUTOMATIC CONTROL
SCHOOLS Responses of teachers to aircraft noise	p0103 A79-23881	SELF STIMULATION Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight and on effectiveness of assimilation of flight training program
SCIENTISTS Paul Bert [NASA-TM-75599]	p0055 N79-13687	SEMICIRCULAR CANALS Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission [DGLR PAPER 78-134]
SCOPOLAMINE U HYOSCINE		Biped stability considerations with vestibular models
SCORING Development of an objective grading system along with procedures and aids for its effective implementation in flight [AD-A071106]	p0318 N79-33846	SEMICONDUCTOR DEVICES NT LIGHT EMITTING DIODES
SCRIBING U SCORING		SEMICONDUCTOR DIODES NT LIGHT EMITTING DIODES
SCRUBBERS Spacelab scrubber analysis and test support [NASA-CR-161309]	p0318 N79-33849	SENSE ORGANS NT CHEMORECEPTORS NT COCHLEA NT CORNEA NT EAR NT EYE (ANATOMY) NT POVEA NT GRAVIRECEPTORS NT LABYRINTH NT MIDDLE EAR NT OCULOMOTOR NERVES NT OTOLITH ORGANS NT PHOTORECEPTORS NT PROPRIOCEPTORS NT PUPILS NT RETINA NT SEMICIRCULAR CANALS NT THERMORECEPTORS NT VESTIBULES
SEA GRASSES Photosynthethic carbon reduction by seagrasses exposed to ultraviolet B radiation [NASA-CR-160144]	p0175 N79-21742	SENSES U SENSORY PERCEPTION
SEA WATER Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums	p0203 A79-37935	SENSIBILITY U SENSITIVITY
Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium	p0204 A79-37964	SENSING U DETECTION
Membranous evolution in the primitive cell	p0206 A79-37977	SENSITIVITY NT LIGHT ADAPTATION NT PHOTOSENSITIVITY NT RADIATION TOLERANCE NT SPECTRAL SENSITIVITY
Polymers produced by heating an amino acid mixture in sea water enriched with transition elements	p0254 A79-46461	Effects of stimulus onset and image motion on contrast sensitivity
SEASAT PROGRAM Aerospace highlights and potential medical applications --- in manned space flight	p0293 A79-51027	The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems --- sensitivity of operators versus monitors to failures
SEATS NT EJECTION SEATS Effects of deceleration and rate of deceleration on live seated human subjects [PB-204653/3]	p0057 N79-13702	SENSORIMOTOR PERFORMANCE NT PSYCHOMOTOR PERFORMANCE A model for sensorimotor control and learning
The use of mathematical modeling in crashworthy helicopter seating systems	p0287 N79-31923	Human Factors Society, Annual Meeting, 21st, San Francisco, Calif., October 17-20, 1977, Proceedings
SECRETIONS NT ADRENOCORTICOTROPIN (ACTH) NT HORMONES NT INSULIN NT PITUITARY HORMONES NT SWEAT The influence of SHF electromagnetic fields on the secretory function of the stomach	p0173 N79-20740	Perceptual delay - A consequence of metacontrast and apparent motion
SECULAR PERTURBATION U LONG TERM EFFECTS		
SEDIMENTS Bacteria in a North Carolina salt marsh. Standing crop and importance in the decomposition of Spartina alterniflora [PB-288816/2]	p0153 N79-19668	
SEGREGATION U SEPARATION		

SENSORY DEPRIVATION

SUBJECT INDEX

- Effect of alcohol and marijuana on eye movements p0035 A79-13183
 Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0101 A79-23469
 Comparative evaluation of the effectiveness of visual and aural tracking of a sinusoidal signal p0102 A79-23471
 The effects of carbon monoxide on dual-task performance p0159 A79-28736
 Eye movements and visual perception --- Russian book p0267 A79-47429
 Electrophysiological correlates of local muscular fatigue effects upon human visual reaction time p0297 A79-52025
 Directional errors of movements and their correction in a discrete tracking task --- pilot reaction time and sensorimotor performance p0086 N79-15589
 A comparison of motor submodels in the optimal control model p0087 N79-15597
 Vestibular influences on other sensory and motor processes --- human performance in flight simulation studies p0094 N79-15893
 A theoretical and experimental analysis of the outside world perception process [NLR-MD-78020-U] p0309 N79-32835
- SENSORY DEPRIVATION**
 The visual cortex of normal and deprived monkeys p0296 A79-51174
- SENSORY DISCRIMINATION**
 NT BRIGHTNESS DISCRIMINATION
 NT TACTILE DISCRIMINATION
 NT VISUAL DISCRIMINATION
 Nonparametric measures of sensory efficiency for sustained monitoring tasks p0161 A79-29719
- SENSORY FEEDBACK**
 Forms of oculomotor activity under conditions of positive visual feedback p0276 A79-50657
 Sensorial aspects of helicopter operations p0152 N79-19644
- SENSORY PERCEPTION**
 NT AUDITORY PERCEPTION
 NT CONSCIOUSNESS
 NT CRITICAL FLICKER FUSION
 NT KINESTHESIA
 NT PAIN
 NT PROPRIOCEPTION
 NT SPACE PERCEPTION
 NT TACTILE DISCRIMINATION
 NT TASTE
 NT VERTICAL PERCEPTION
 NT VIBRATION PERCEPTION
 NT VISUAL DISCRIMINATION
 NT VISUAL PERCEPTION
 The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
 Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
 Sensory illusions - The ophthalmologist's point of view p0255 A79-46595
 Sensory illusions of vestibular origin p0255 A79-46596
 The physiologist's view of sensory illusions p0255 A79-46597
 Development of techniques to enhance man/machine communication [NASA-CR-157886] p0032 N79-11730
 Sensory mechanism modeling [AD-A069439] p0262 N79-29796
- SENSORY STIMULATION**
 Evoked potential correlates of display image quality p0068 A79-18998
 Coma recovery p0094 N79-15891
 Vestibular influences on other sensory and motor processes --- human performance in flight simulation studies p0094 N79-15893
- Multi-channel stimulation of peripheral nerve trunks p0176 N79-21753
 A study of the mechanism of thigmomorphogenesis in plants, with special reference to the role of ethylene and its significance to research with plants in space [NASA-CR-158506] p0190 N79-23625
- SENTENCES**
 NT WORDS (LANGUAGE)
- SEPARATION**
 A method for separating biological cells [NASA-CASE-MPS-23883-1] p0175 N79-21743
- SEROTONIN**
 Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat p0005 A79-12474
 Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
- SERUMS**
 Effects of magnesium, calcium, and serum on reversion of stable L-forms --- of soil bacterium p0131 A79-26140
 Blood lipid changes in hypoxic rats p0074 N79-14731
 Electrophoresis pattern of serum from mice exposed to different concentrations of sulfur dioxide p0147 N79-19027
 Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- SERVICE MODULES**
 Computer aided control of a mechanical arm p0275 A79-50334
- SERVICES**
 NT MEDICAL SERVICES
 NT METEOROLOGICAL SERVICES
- SERVOCONTROL**
 Helicopter commands at the touch of a hand [AHS 79-13] p0270 A79-49066
- SERVOMECHANISMS**
 The proto-type wrist joint assembly TACPAW (Triple Axis Common Pivot Arm Wrist), phase 2 [NASA-CR-150885] p0093 N79-15635
- SERVOSTABILITY CONTROL**
 U SERVOCONTROL
 SET THEORY
 NT EQUIVALENCE
- SEWAGE TREATMENT**
 Mechanism of plant virus inactivation in soil injected with municipal wastewater and treatment plant sludges [PB-287012/9] p0107 N79-16513
- SEX FACTOR**
 Comparison of circadian rhythms in male and female humans p0004 A79-11947
 Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948
- Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80] p0301 A79-53288
- A new application of LBNP to measure orthostatic tolerance before and after O-G simulation /water immersion/ [IAF PAPER 79-87] p0302 A79-53290
- A comparison of the physiological responses in young men and women to heat and cold stress [AD-A061024] p0155 N79-19679
- Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
- SEX GLANDS**
 NT PROSTATE GLAND
 NT TESTES
- SFERICS**
 U ATMOSPHERICS
- SHANNON INFORMATION THEORY**
 U INFORMATION THEORY
- SHAPES**
 NT LINE SHAPE
- SHEAR PROPERTIES**
 NT SHEAR STRENGTH
- SHEAR STRENGTH**
 Improved measurements of shear modulus and pleural membrane tension of the lung

SHIELDING	p0236 A79-43702	p0294 A79-51039
NT RADIATION SHIELDING		
SHIPS		
NT AIRCRAFT CARRIERS		
SHOCK (PHYSIOLOGY)		
Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain	p0162 A79-29925	p0063 A79-18212
Isolation of a shock-induced circulating cardiodepressant substance	p0257 A79-46967	p0159 A79-28565
SHOCK RESISTANCE		
Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253]	p0284 N79-31901	
Reference parameters for shock inputs and shock tolerance limits	p0284 N79-31905	p0086 N79-15591
SHOCK SPECTRA		
Reference parameters for shock inputs and shock tolerance limits	p0284 N79-31905	
SHOCK WAVES		
NT SONIC BOOMS		
The effects of strong shock waves on mortality rates and percentages of pulmonary lesions in rats as a function of the number of exposures [NASA-TM-75598]	p0053 N79-13676	
The biodynamic response of the human body and its application to standards	p0288 N79-31929	
SHORT WAVE RADIATION		
NT MICROWAVE EMISSION		
NT MICROWAVES		
NT MILLIMETER WAVES		
SHUTTLE ORBITERS		
U SPACE SHUTTLE ORBITERS		
SIBERIA		
Medical science in Siberia: Oxygen exchange in the Far North [NASA-TM-75391]	p0211 N79-24630	
SICKNESSES		
NT ALTITUDE SICKNESS		
NT DECOMPRESSION SICKNESS		
SIDE-LOOKING RADAR		
NT RADAR IMAGERY		
The behavior of observers in detecting unbriefed targets at different aircraft speeds with side-looking radar [AD-A060908]	p0085 N79-15586	
SIGHT		
U VISUAL PERCEPTION		
SIGNAL ANALYSIS		
NT CEPSTRAL ANALYSIS		
Auditory analysis of complex sound: Electrophysiological investigations --- Russian book	p0167 A79-31899	
Homomorphic analysis and modeling of ECG signals	p0210 A79-39973	
SIGNAL DETECTION		
Factors that affect display size criteria in a cockpit display system	p0063 A79-18212	
Nonparametric model for the detection of signals observed by a human operator on a CRT screen on a noise background --- cathode-ray tube	p0159 A79-28565	
Nonparametric measures of sensory efficiency for sustained monitoring tasks	p0161 A79-29719	
Predicting aircraft detectability	p0208 A79-38358	
The human as a detector of changes in variance and bandwidth	p0117 N79-17496	
The use of artificial signals during SONAR-watch	p0309 N79-32837	
SIGNAL PROCESSING		
The relationship between classical centers of the auditory tract and certain 'nonspecific' brain structures in the organization of the auditory function in animals	p0043 A79-14370	
Signal processing in ultrasound --- for diagnostic medicine		

SINE WAVES**SUBJECT INDEX**

- Visual performance modeling in the human operator simulator p0317 N79-33840
- SINE WAVES**
- Comparative evaluation of the effectiveness of visual and aural tracking of a sinusoidal signal p0159 A79-28736
- Motion and vision. I - Stabilized images of stationary gratings p0278 A79-50986
- SINGLE CRYSTALS**
- The growth of single crystals from proteins in gravity-free space [AIHA PAPER 79-0311] p0069 A79-19665
- SINUSES**
- NT PARANASAL SINUSES
- Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite p0021 N79-11662
- SINUOSIDS**
- U SINE WAVES
- SITTING POSITION**
- Seating, console and workplace design - Seated operator reach profiles p0036 A79-13188
- Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189
- Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions p0161 A79-29336
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man p0235 A79-43208
- Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
- The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +G_{sub z} acceleration [PPRC-1362] p0248 N79-27856
- The effect of acceleration and seat back angle on performance of a reaction time task [PPRC-1364] p0248 N79-27857
- The influence of seat back angle on acceleration tolerance [PPRC-1365] p0248 N79-27858
- A lower body negative pressure box for +G_{sub z} simulation in the upright seated position [AD-A069326] p0259 N79-28868
- The response of a realistic computer model for sitting humans to different types of shocks p0288 N79-31927
- Some human responses to repeated +G_{sub z} pulses p0288 N79-31928
- Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- Vertical orientation of man during 5-day antiorthostatic hypokinesia (-4, -8 and -12 deg head down position) p0313 N79-33810
- SIZE DETERMINATION**
- The common occurrence of errors of perceived distance p0100 A79-22775
- SKELETON**
- U MUSCULOSKELETAL SYSTEM
- SKILLS**
- U ABILITIES
- SKIN (ANATOMY)**
- Neurophysiology of thermal reception p0043 A79-14374
- Human skin wettedness and evaporative efficiency of sweating p0162 A79-29726
- Control of skin blood flow during exercise - Thermal and nonthermal factors p0185 A79-33807
- Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues p0233 A79-42932
- Noninvasive estimation of bilirubin and hemoglobin oxygen saturation in the skin by reflection spectrophotometry p0054 N79-13684
- Percutaneous absorption of toxic agents. Part 2: The nerve bases and some other toxic organophosphates. A survey of the literature [PML-1978-9] p0123 N79-17542
- Official method for determining ocular irritation [BLL-RTS-11221] p0142 N79-18571
- The dangerous relation between sunburn and skin cancer [BLL-RTS-11310] p0142 N79-18573
- Solar radiation, light protection and tanning of human skin [BLL-RTS-11580] p0142 N79-18574
- Thermal conduction effects in human skin. I: Experimental data acquisition [AD-A068479] p0259 N79-28871
- Thermal conduction effects in human skin. 3: Influence of epidermal thickness and exposure time [AD-A068481] p0259 N79-28872
- Uncommon hypersensitivity to contacting cold water and cold air with propagated reflex-like erythema development [BLL-RTS-11644] p0279 N79-30917
- SKIN TEMPERATURE (BIOLOGY)**
- Measurement of skin temperatures of active subjects by wireless telemetry p0011 A79-12872
- Modeling heat transfer through human skin subjected to high external temperatures p0102 A79-23782
- Skin temperature changes in paradoxical sleep in man in the cold p0201 A79-37706
- Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
- The effect of thermal stimulation of the skin on activity of lateral crescent interneurons of lumbar segments p0208 A79-38147
- Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task p0234 A79-43204
- Temperature changes during exercise measured by thermography p0235 A79-43209
- Thermal conduction effects in human skin p0265 A79-47329
- An improved method for inducing hypothermia and rewarming p0267 A79-47339
- Effect of rate of change in skin temperature on local sweating rate p0268 A79-47853
- Role of skin temperature in the control of sweating p0277 A79-50907
- Influence of skin temperature on sweating and aerobic performance during severe work p0305 A79-54268
- SKYLAB PROGRAM**
- User's guide for the Skylab integrated medical data analysis system [NASA-CR-160189] p0220 N79-25740
- Skylab medical data evaluation program (SMEDEP) [NASA-CR-160279] p0259 N79-28869
- SKYLAB 3**
- Construction in space - Toward a fresh definition of the man/machine relation p0187 A79-34985
- SL 3**
- U SKYLAB 3
- SLANT PERCEPTION**
- U SPACE PERCEPTION
- SLEDS**
- NT ROCKET PROPELLED SLEDS
- Space Sled - A multipurpose apparatus for vestibular research aboard Spacelab [DGLR PAPER 78-132] p0042 A79-14083
- SLEEP**
- NT HYPNOSIS'
- Skin temperature changes in paradoxical sleep in man in the cold p0201 A79-37706
- The influence of intermittent aircraft noise on sleep. I p0255 A79-46599
- Electrophysiological investigation of sleep during work-shift regime and production-induced emotional stress

- Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0276 A79-50655
 Effects of sleep at altered ambient temperatures on electrophysiological sleep and thermoregulatory mechanisms in human subjects and in the ground squirrel (*Citellus lateralis*) p0216 N79-25709
 A nonlinear mapping approach to discrimination of sleep stages from the human electroencephalogram p0314 N79-33817
- SLEEP DEPRIVATION**
 Sustained operations and sleep deprivation - Effects on indices of stress p0009 A79-12859
 Effect of paradoxical sleep deprivation on the acquisition of sound discrimination p0167 A79-31988
 Effects of partial sleep deprivation on psychological performance and behaviour p0200 A79-37130
 Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 A79-43202
 Arousal from sleep by emergency alarms: Implications from the scientific literature [PB-284044/5] p0051 N79-12700
 Minuteman missile crew fatigue and 24-hour alerts [AD-A056561] p0056 N79-13696
 Task complexity and 24-hr performance patterns in morning and evening active subjects [FOA-C-52001-H6] p0122 N79-17537
- SLEEVES**
 Prosthesis coupling [NASA-CASE-KSC-11069-1] p0240 N79-26772
- SMOKE**
 A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11685
 A literature review-problem definition studies on selected toxic chemicals. Volume 8: Environmental aspects of diesel fuel and fog oils SGF number 1 and SGF number 2 and smoke screens generated from them [AD-A056021] p0025 N79-11688
 The optical properties of smoke-protective devices [FAA-AM-78-41] p0242 N79-26784
- SODIUM**
 NT SODIUM ISOTOPES
 NT SODIUM 22
 Thresholds for Na^{+/} and Ca^{++/} effects on thermoregulation p0045 A79-14774
 Effect of sodium and calcium ingestion on thermoregulation during exercise in man p0163 A79-30624
 Gating effects in *Halobacterium halobium* membrane transport p0268 A79-47849
 Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects p0297 A79-52023
 Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions p0075 N79-14743
- SODIUM CHLORIDES**
 The use of Na-22 as a tracer for long-term bone mineral turnover studies. p0265 A79-47327
- SODIUM COMPOUNDS**
 NT SODIUM CHLORIDES
SODIUM ISOTOPES
 NT SODIUM 22
 Kinetic measurements of bone mineral metabolism: The use of Na-22 as a tracer for long-term bone mineral turnover studies [NASA-CR-151868] p0111 N79-16544
- SODIUM 22**
 The use of Na-22 as a tracer for long-term bone mineral turnover studies. p0265 A79-47327
- SOFTWARE (COMPUTERS)**
 U COMPUTER PROGRAMS
SOIL MOISTURE
 Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873] p0107 N79-16512
- SOIL SCIENCE**
 Minute tubular forms in soil p0297 A79-51698
 Attachment to autoclaved soil of bacterial cells from pure cultures of soil isolates p0297 A79-51701
- SOILS**
 NT LUNAR SOIL
 Chemical fingerprints of life in terrestrial soils and their possible use for the detection of life on Mars and other planets p0136 A79-27929
 Enhancing biological production of ammonia from atmospheric nitrogen and soil nitrate [PB-286515/21] p0083 N79-15571
 Mechanism of plant virus inactivation in soil injected with municipal wastewater and treatment plant sludges [PB-287012/9] p0107 N79-16513
 Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms [NBC/CNR-TT-1924] p0120 N79-17521
- SOLAR COLLECTORS**
 Health and safety hazards associated with solar concentration systems p0200 A79-36628
- SOLAR RADIATION**
 NT SUNLIGHT
 Solar-driven chemical energy source for a Martian biota p0254 A79-46464
 The dangerous relation between sunburn and skin cancer [BLL-RTS-11310] p0142 N79-18573
 Solar radiation, light protection and tanning of human skin [BLL-RTS-11580] p0142 N79-18574
 Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631
- SOLAR TERRESTRIAL INTERACTIONS**
 A review of recent concepts of the problem of the origin of life p0221 A79-36041
- SOLID PROPELLANTS**
 Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1 [PB-290328/4] p0178 N79-21775
- SOLID ROTATION**
 U ROTATING BODIES
- SOLID STATE**
 Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772
- SOLUTIONS**
 NT AQUEOUS SOLUTIONS
 NT GAS MIXTURES
- SONAR**
 The use of artificial signals during SONAR-watch [IZF-1978-25] p0309 N79-32837
- SOMIC BOOMS**
 Startle reactions to simulated sonic booms - Influence of habituation, boom level and background noise p0097 A79-20502
- Aircraft sonic boom: Biological effects. A bibliography with abstracts [NTIS/PS-79/0190/3] p0214 N79-24650
- SORBENTS**
 NT ABSORBENTS
- SORPTION**
 NT ADSORPTION
 NT CHEMISORPTION
- SORTIE CAN**
 U SPACELAB
- SORTIE LAB**
 U SPACELAB
- SOUND**
 U ACOUSTICS
- SOUND GENERATORS**
 Lung mechanics: Dynamic response, acoustic generation, and flow limitation p0017 N79-10727

SOUND MEASUREMENT	
U ACOUSTIC MEASUREMENTS	
SOUND PERCEPTION	
U AUDITORY PERCEPTION	
SOUND WAVES	
NT AIRCRAFT NOISE	
NT NOISE (SOUND)	
NT SONIC BOOMS	
Guidelines for designing machines and devices for acoustic vibrations from the point of view of the physiological and psychological properties of the human organism	p0236 A79-43608
The effect of ultrasound on botulin toxin	[AD-A059544]
p0142 N79-18566	
SOVIET SPACECRAFT	
NT COSMOS SATELLITES	
NT COSMOS 782 SATELLITE	
NT COSMOS 936 SATELLITE	
NT INTERCOSMOS SATELLITES	
NT SALYUT SPACE STATION	
SOVIET UNION	
U U.S.S.R.	
SOYBEANS	
Physiological effects of a high soybean protein diet in man	p0240 N79-26777
SOYUZ SPACECRAFT	
Man in space and on earth	[NASA-TM-75602]
p0122 N79-17533	
Salyut-6--Soyuz-29: Our commentary, the crew and the station	[NASA-TM-75393]
p0174 N79-20745	
SPACE BASES	
NT SPACE COLONIES	
ECLSS definition for a low cost space construction base --- Environmental Control Life Support Systems	[ASME PAPER 78-ENAS-15]
p0007 A79-12564	
SPACE BIOLOGY	
U EXOBIOLOGY	
SPACE COLONIES	
Developing closed life support systems for large space habitats	[ASME PAPER 78-145]
p0099 A79-21260	
Waste treatment options for use in closed systems --- in space colonies	[AIAA PAPER 79-1409]
p0187 A79-34843	
SPACE ENVIRONMENT	
U AEROSPACE ENVIRONMENTS	
SPACE ENVIRONMENT SIMULATION	
NT WEIGHTLESSNESS SIMULATION	
Life sciences experiments mission development test program	[ASME PAPER 78-ENAS-36]
p0008 A79-12583	
Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II	[DGLR PAPER 78-183]
p0070 A79-20024	
A new application of LBNP to measure orthostatic tolerance before and after O-G simulation /water immersion/	[IAF PAPER 79-87]
p0302 A79-53290	
Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II	[IAF PAPER 79-88]
p0302 A79-53291	
SPACE ERECTABLE STRUCTURES	
Manual alignment of structural components in space	[AIAA PAPER 79-0535]
p0129 A79-25855	
SPACE EXPLORATION	
NT VIKING MARS PROGRAM	
Development opportunities in the space environment	p0095 N79-15897
SPACE FLIGHT	
NT MANNED SPACE FLIGHT	
NT VIKING MARS PROGRAM	
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration	p0229 A79-41704
Vestibular Function Research (VFR) experiment. Phase B: Design definition study	[NASA-CR-152207]
p0024 N79-11683	
The cosmonaut in flight	[NASA-TT-F-17438]
p0032 N79-11729	
Effects of hypodynamic simulations on the skeletal system of monkeys	p0146 N79-19021
Human factors in Space vehicles and space stations	p0189 N79-22135
A prioritized set of physiological measurements for future spaceflight experiments	[NASA-CR-160202]
p0217 N79-25719	
The application of systems analysis and mathematical models to the study of erythropoiesis during space flight	[NASA-CR-160218]
p0219 N79-25739	
Space biology and aerospace medicine, v. 13, no. 3, 1979	[JPRS-73784]
p0243 N79-27817	
The combined effect of space flight factors and radiation on rat skeletal muscles	p0244 N79-27821
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite	p0244 N79-27822
Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite	p0244 N79-27823
Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites	p0244 N79-27824
Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness	p0244 N79-27825
Morphological distinctions of the rat thyroid and parathyroid following long-term space flights	p0246 N79-27835
SPACE FLIGHT FEEDING	
Food packages for Space Shuttle	
[ASME PAPER 78-ENAS-13]	p0007 A79-12562
Caloric and exercise requirements of space flight - Biostereometric results from Skylab	p0128 A79-24637
Food and waste management biotechnology for the space shuttle	[IAF PAPER 79-93]
Prospects of using Japanese quail in biological life support systems	p0302 A79-53294
p0109 N79-16531	
SPACE FLIGHT STRESS	
Prolonged weightlessness and calcium loss in man	[IAF PAPER 78-48]
p0002 A79-11219	
On the man's adaptation to the operator's work under stressful conditions of space flight	[IAF PAPER 78-A-56]
p0003 A79-11345	
Space medicine - A prognosis for future research	[IAF PAPER 78-ST-17]
p0003 A79-11364	
Laryngeal problems in space travel	p0011 A79-12870
Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission	[IAF PAPER 78-48]
p0002 A79-11219	
Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight	[DGLR PAPER 78-134]
p0042 A79-14084	
Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission	[DGLR PAPER 78-134]
p0047 A79-15491	
Influence of orbital flight conditions on formation of genitals in Muscari racemosum and Anethum graveolens	p0229 A79-41713
p0230 A79-41718	
Erythropoietic effects of space flight	[DGLR PAPER 78-134]
p0231 A79-42193	
Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936	[DGLR PAPER 78-134]
p0274 A79-49992	
Determination of muscle mass changes in legs from K-40 measurements	[DGLR PAPER 78-134]
p0274 A79-49997	
Effect of microwave radiation on the resistance of rats to transverse acceleration loading	[DGLR PAPER 78-134]
p0275 A79-50496	
Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite	[DGLR PAPER 78-134]
p0299 A79-52475	
Psychological training - One of the most important factors of enhancing the safety of space flights	[IAF PAPER 79-A-24]
p0303 A79-53426	
Space biology and aerospace medicine, vol. 12, no. 5, 1978	[JPRS-72115]
p0013 N79-10698	

- Recovery of hemopoiesis in rats exposed to radiation during space flight p0014 N79-10701
- Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite p0014 N79-10702
- Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite p0014 N79-10703
- State of spermatogenesis in rats flown aboard Kosmos-690 biosatellite p0014 N79-10704
- Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method p0015 N79-10707
- Effect of space flight on cell-mediated immunity --- COSMOS 782 satellite p0021 N79-11661
- Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 1: Endochondral osteogenesis; medullary bone turnover p0022 N79-11665
- Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone p0022 N79-11666
- Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- Quantitative analysis of selected bone parameters p0023 N79-11676
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers p0024 N79-11679
- Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487] p0072 N79-14716
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826] p0107 N79-16514
- Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5 p0107 N79-16515
- Effects of space flight on course of radiation lesions in rat lymphoid organs p0107 N79-16516
- Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite p0108 N79-16517
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- Changes in amount and composition of phospholipids in rat skeletal muscle microsomal fraction under the influence of a flight aboard the Kosmos-690 biosatellite p0108 N79-16519
- Antiorthostatic hypokinesia as an approximate model of weightlessness p0108 N79-16520
- Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction p0108 N79-16521
- Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
- Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits p0108 N79-16523
- Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
- Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0109 N79-16526
- Effects of space flight factors on electrolyte composition of rat skeletal muscles p0109 N79-16530
- Effects of LBNP on catecholamines and adrenal cortex p0110 N79-16532
- Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement p0110 N79-16534
- Problems of human adaption to spaceflight p0157 N79-19985
- Space biology and aerospace medicine, no. 2, 1979 [JPRS-73377] p0190 N79-23627
- Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite --- effects of space flight stress p0192 N79-23631
- Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
- Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0194 N79-23641
- Space Biology and Aerospace Medicine, no. 4, 1979 [JPRS-74330] p0310 N79-33789
- Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- SPACE FLIGHT TRAINING**
- From the laboratory to the Spacelab - Training program for Spacelab payload experts [DGLR PAPER 78-182] p0069 A79-20023
- Consciousness alteration in space [AIAA PAPER 79-1430] p0187 A79-34853
- Neurophysiological bases of vestibular conditioning p0013 N79-10699
- SPACE INDUSTRIALIZATION**
- Developing closed life support systems for large space habitats [AAS PAPER 78-145] p0099 A79-21260
- SPACE LABORATORIES**
- NT MANNED ORBITAL LABORATORIES Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- SPACE MAINTENANCE**
- Test evaluation of space station ECLSS maintenance concepts --- Environmental Control and Life Support System [ASME PAPER 78-ENAS-43] p0009 A79-12589
- Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176] p0099 A79-21273
- SPACE MANUFACTURING**
- Construction in space - Toward a fresh definition of the man/machine relation p0187 A79-34985
- SPACE MISSIONS**
- Life sciences experiments mission development test program [ASME PAPER 78-ENAS-36] p0008 A79-12583
- Overview of the use of robots in space missions [DGLR PAPER 78-154] p0042 A79-14099
- Concept definition for an extended duration orbiter ECLSS [NASA-CR-160164] p0197 N79-23666
- SPACE PERCEPTION**
- The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night

nap-of-the-earth flight p0038 A79-13204
 Depth perception and manual control p0038 A79-13207
 Significance of motor activity for spatial hearing p0043 A79-14372
 Perception of graphic displays of space p0062 A79-18205
 The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight p0062 A79-18206
 Eye movements and symmetry - Foundations for a quantitative analysis of eye movements as they depend on the structure of the perception field --- German thesis p0098 A79-20756
 The common occurrence of errors of perceived distance p0100 A79-22775
 Digital color image compression in a perceptual space p0136 A79-28013
 Perception of depth - Processing of simple positional disparity as a function of viewing distance p0139 A79-28197
 Axiomatic summary and deductions from Hering's principles of visual direction p0228 A79-41421
 A comparison of oculomotor and motion parallax cues of egocentric distance p0305 A79-54253

SPACE PROBES
 NT VIKING MARS PROGRAM
 NT VIKING SPACECRAFT

SPACE PROCESSING
 Spacelab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129] p0041 A79-14081
 The growth of single crystals from proteins in gravity-free space [AIAA PAPER 79-0311] p0069 A79-19665

SPACE PROGRAMS
 NT U.S.S.R. SPACE PROGRAM

SPACE RADIATION
 U EXTRATERRESTRIAL RADIATION

SPACE RATIONS
 Food packages for Space Shuttle [ASME PAPER 78-ENAS-13] p0007 A79-12562

SPACE SCIENCES
 U AEROSPACE SCIENCES

SPACE SHUTTLE ORBITERS
 Animal life support transporters for Shuttle/Spacelab [ASME PAPER 78-ENAS-10] p0006 A79-12559
 Extended duration orbiter life support system options [ASME PAPER 78-ENAS-31] p0008 A79-12580
 Extended duration Orbiter life support definition [ASME PAPER 78-ENAS-42] p0009 A79-12588
 Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639
 Food and waste management biotechnology for the space shuttle [IAP PAPER 79-93] p0302 A79-53294
 Selection, training, and health care of working specialists for Shuttle/Spacelab and future space station missions [IAP PAPER 79-99] p0303 A79-53297
 Multi-axis hand controller for the shuttle remote manipulator system p0117 N79-17503
 Advanced life support equipment for nitrogen tetroxide environments p0169 N79-20432
 Concept definition for an extended duration orbiter ECSS [NASA-CR-160164] p0197 N79-23666

SPACE SHUTTLE PAYLOADS
 NT SPACEBORNE EXPERIMENTS
 NT SPACELAB
 Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
 Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38] p0009 A79-12585
 Development of space biology experiments for the Space Shuttle - A student's perspective

[AAS PAPER 78-134] p0099 A79-21252
SPACE SHUTTLES
 Food packages for Space Shuttle [ASME PAPER 78-ENAS-13] p0007 A79-12562
 Microbial Check Valve for Shuttle [ASME PAPER 78-ENAS-27] p0008 A79-12576
 Manned maneuvering unit: User's guide [NASA-CR-151864] p0113 N79-16553
 Simple models for the shuttle remote manipulator system [NASA-CR-151881] p0113 N79-16554
 Human factors in Space vehicles and space stations p0189 N79-22135
 Biomedical application in space, pilot program in the southern California region [NASA-CR-160171] p0195 N79-23653
 A system for sterilizing objects --- such as water systems on the space shuttle using ethylene oxide [NASA-CASE-KSC-11085-1] p0318 N79-33848

SPACE STATIONS
 NT LONG DURATION EXPOSURE FACILITY
 NT ORBITAL SPACE STATIONS
 NT ORBITAL WORKSHOPS
 NT SALYUT SPACE STATION
 NT SKYLAB 3
 Test evaluation of space station ECLSS maintenance concepts --- Environmental Control and Life Support System [ASME PAPER 78-ENAS-43] p0009 A79-12589
 Human factors in Space vehicles and space stations p0189 N79-22135

SPACE SUITS
 Evolution of space suit technology [IAP PAPER 79-92] p0302 A79-53293
 Concentration of trace contaminants during gas chromatography and chromatograph-mass spectrometry in biomedical research p0109 N79-16528

Spacesuit mobility knee joints [NASA-CASE-ARC-11058-2] p0214 N79-24651
 Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth p0244 N79-27826

SPACE SYSTEMS ENGINEERING
 U AFROSPACE ENGINEERING
 SPACE TRANSPORTATION
 NT SPACE TRANSPORTATION SYSTEM
 SPACE TRANSPORTATION SYSTEM
 NT SPACE SHUTTLE ORBITERS
 NT SPACE SHUTTLES
 Food packages for Space Shuttle [ASME PAPER 78-ENAS-13] p0007 A79-12562
 Challenges to life support system's future [ASME PAPER 78-ENAS-28] p0008 A79-12577
 Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
 Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37] p0008 A79-12584
 Vestibular Function Research (VFR) experiment. Phase B: Design definition study [NASA-CR-152207] p0024 N79-11683

SPACE VEHICLE CHECKOUT PROGRAM
 The Spacelab flight unit environmental control/life support system [ASME PAPER 78-ENAS-14] p0007 A79-12563

SPACE VEHICLE CONTROL
 U SPACECRAFT CONTROL

SPACEBORNE ASTRONOMY
 Advanced teleoperators --- remote manipulation system p0187 A79-34982

SPACEBORNE EXPERIMENTS
 Experiment Chlorella 1 on board of Salyut 6 [IAP PAPER 78-53] p0003 A79-11223
 Biological specimen holding facilities for Spacelab experiments [IAP PAPER 78-56] p0003 A79-11224
 Two primate biological facility module in Spacelab [IAP PAPER 78-70] p0003 A79-11229
 An apparatus for studying electroretinographic responses under conditions of space flight p0006 A79-12517
 Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
 Biological study of tobacco seeds flown in the joint Apollo-Soyuz test-project

Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25]	p0006 A79-12519		
Life sciences experiments in the first Spacelab mission [ASME PAPER 78-ENAS-26]	p0007 A79-12574		
Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34]	p0008 A79-12575		
Support system considerations for STS' biological investigations [ASME PAPER 78-ENAS-37]	p0008 A79-12584		
Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38]	p0009 A79-12585		
Aggregation of red cells and blood viscosity as models of materials experimentation in the space environment [AIAA PAPER 79-0310]	p0069 A79-19664		
Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II [DGLR PAPER 78-183]	p0070 A79-20024		
Development of space biology experiments for the Space Shuttle - A student's perspective [AAS PAPER 78-134]	p0099 A79-21252		
The European life sciences experiments onboard the first Spacelab mission	p0100 A79-22254		
Some comments on interpretations of Viking biological experiments	p0255 A79-46465		
US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525]	p0020 N79-11651		
US experiments flown on COSMOS 782	p0020 N79-11652		
Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite	p0021 N79-11662		
Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite	p0021 N79-11664		
Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment	p0022 N79-11667		
US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-78526]	p0023 N79-11671		
The Cosmos 936 mission	p0023 N79-11672		
BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft [NASA-TM-58217]	p0261 N79-29784		
SPACECRAFT CABIN ATMOSPHERES			
The Spacelab flight unit environmental control/life support system [ASME PAPER 78-ENAS-14]	p0007 A79-12563		
Medical characteristics of the Spacelab life support system [DGLR PAPER 78-130]	p0041 A79-14082		
Characteristics of bacterial aerosol in airtight rooms occupied by humans	p0016 N79-10715		
Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft	p0072 N79-14720		
Flight prototype CO2 and humidity control system [NASA-CR-160224]	p0222 N79-25760		
SPACECRAFT COMPONENTS			
NT SERVICE MODULES			
NT SPACECRAFT MODULES			
Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components [NASA-CR-158627]	p0197 N79-25705		
SPACECRAFT CONTAMINATION			
Public health considerations associated with a Mars surface sample return mission	p0005 A79-12510		
Planetary protection guidelines for Outer Planet missions	p0005 A79-12511		
Microbial Check Valve for Shuttle [ASME PAPER 78-ENAS-27]	p0008 A79-12576		
Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation	[NASA-CASE-KSC-11085-1]	p0318 N79-33849	
		p0131 A79-26147	
		Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components [NASA-CR-158627]	p0197 N79-25705
		Spacelab scrubber analysis and test support [NASA-CR-161309]	p0318 N79-33849
		SPACECRAFT CONTROL	
		Operator performance and localized muscle fatigue in a simulated space vehicle control	p0214 N79-24653
		SPACECRAFT DESIGN	
		ECLSS definition for a low cost space construction base --- Environmental Control Life Support Systems [ASME PAPER 78-ENAS-15]	p0007 A79-12564
		Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37]	p0008 A79-12584
		Engineering-psychological study of information imaging systems --- manual control of spaceship docking	p0099 A79-21404
		Man and machine design for space flight	p0300 A79-52696
		Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024]	p0032 N79-11734
		SPACECRAFT ENVIRONMENTS	
		Some advances in astronaut radiation dosimetry [IAF PAPER 78-67]	p0003 A79-11228
		A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19]	p0007 A79-12568
		Extended duration Orbiter life support definition [ASME PAPER 78-ENAS-42]	p0009 A79-12588
		Spacelab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129]	p0041 A79-14081
		Waste treatment options for use in closed systems --- in space colonies [AIAA PAPER 79-1409]	p0187 A79-34843
		US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525]	p0020 N79-11651
		US experiments flown on COSMOS 782	p0020 N79-11652
		Effects of space flight on plasma and glandular concentrations of pituitary hormones --- COSMOS 782 satellite	p0021 N79-11664
		A prioritized set of physiological measurements for future spaceflight experiments [NASA-CR-160202]	p0217 N79-25719
		Space biology and aerospace medicine, v. 13, no. 3, 1979 [JPRS-73784]	p0243 N79-27817
		The combined effect of space flight factors and radiation on rat skeletal muscles	p0244 N79-27821
		Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite	p0244 N79-27822
		Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite	p0244 N79-27823
		Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites	p0244 N79-27824
		Technology advancement of an oxygen generation subsystem [NASA-CR-152257]	p0261 N79-28883
		SPACECRAFT MODULES	
		Two primate biological facility module in Spacelab [IAF PAPER 78-70]	p0003 A79-11229
		Computer aided control of a mechanical arm	p0275 A79-50334
		SPACECRAFT ORBITAL ASSEMBLY	
		U ORBITAL ASSEMBLY	
		SPACECRAFT ORBITS	
		NT SATELLITE ORBITS	
		SPACECRAFT PRELAUNCH TESTS	
		U SPACE VEHICLE CHECKOUT PROGRAM	
		SPACECRAFT STERILIZATION	
		A system for sterilizing objects --- such as water systems on the space shuttle using ethylene oxide	
		[NASA-CASE-KSC-11085-1]	p0318 N79-33848

- SPACECRAFT TRACKING**
- NT SATELLITE TRACKING**
- SPACECREWS**
- On the man's adaptation to the operator's work under stressful conditions of space flight [IAF PAPER 78-A-56] p0003 A79-11345
 - From the laboratory to the Spacelab - Training program for Spacelab payload experts [DGLR PAPER 78-182] p0069 A79-20023
 - Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II [DGLR PAPER 78-183] p0070 A79-20024
 - Spacelab's payload specialists, their selection and duties on-board p0226 A79-40720
 - Selection, training, and health care of working specialists for Shuttle/Spacelab and future space station missions [IAF PAPER 79-99] p0303 A79-53297
 - Considerations associated with the introduction of female crewmembers in spacecraft and space stations [IAF PAPER 79-A-22] p0303 A79-53424
 - Communication problems of international crews [IAF PAPER 79-A-23] p0303 A79-53425
 - Spacecraft utensil/hand cleansing fixture [NASA-CR-151845] p0032 N79-11731
 - Spacecraft utensil/hand cleansing fixture, addendum [NASA-CR-151846] p0032 N79-11732
 - Dynamics of Cosmonauts' blood biochemistry during space missions p0072 N79-14717
 - Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
 - Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720
 - Salyut-6--Soyuz-29: Our commentary, the crew and the station [NASA-TM-75393] p0174 N79-20745
 - Studies of microbial flora and immunity of Salyut-3 crew p0192 N79-23629
 - Systems identification and application systems development for monitoring the physiological and health status of crewmen in space [NASA-CR-160235] p0212 N79-24642
 - Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792
- SPACELAB**
- Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56] p0003 A79-11224
 - Spacelab environmental control/life support system /BCLS/ for life science experiments [IAF PAPER 78-59] p0003 A79-11225
 - Two primate biological facility module in Spacelab [IAF PAPER 78-70] p0003 A79-11229
 - Animal life support transporters for Shuttle/Spacelab [ASME PAPER 78-ENAS-10] p0006 A79-12559
 - The Spacelab flight unit environmental control/life support system [ASME PAPER 78-ENAS-14] p0007 A79-12563
 - Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574
 - Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38] p0009 A79-12585
 - Spacelab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129] p0041 A79-14081
 - Medical characteristics of the Spacelab life support system [DGLR PAPER 78-130] p0041 A79-14082
 - Anthropology in Spacelab - Control and display system in Spacelab [DGLR PAPER 78-151] p0042 A79-14096
 - Man/terminal interaction evaluation of computer operating system command and control service concepts --- in Spacelab p0064 A79-18224
 - Aggregation of red cells and blood viscosity as models of materials experimentation in the space environment [AIAA PAPER 79-0310] p0069 A79-19664
 - The growth of single crystals from proteins in gravity-free space
- [AIAA PAPER 79-0311] p0069 A79-19665
- From the laboratory to the Spacelab - Training program for Spacelab payload experts [DGLR PAPER 78-182] p0069 A79-20023
- Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713
- Importance of temperature control for HEPELEX, a biological experiment for Spacelab 1 --- plant gravitational physiology study p0230 A79-41716
- Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88] p0302 A79-53291
- Thoughts about man-machine interrelations in space flights applied to Spacelab missions [IAF PAPER 79-95] p0302 A79-53295
- Selection, training, and health care of working specialists for Shuttle/Spacelab and future space station missions [IAF PAPER 79-99] p0303 A79-53297
- Biomedical application in space, pilot program in the southern California region [NASA-CR-160171] p0195 N79-23653
- Psychological selection of Spacelab payload specialists: The evaluation of German applicants [DLR-FB-78-29] p0281 N79-30936
- Spacelab scrubber analysis and test support [NASA-CR-161309] p0318 N79-33849
- SPACELAB PAYLOADS**
- The European life sciences experiments onboard the first Spacelab mission [ASME PAPER 78-ENAS-24] p0007 A79-12573
 - Life sciences experiments in the first Spacelab mission [ASME PAPER 78-ENAS-26] p0008 A79-12575
 - Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
 - Life sciences experiments mission development test program [ASME PAPER 78-ENAS-36] p0008 A79-12583
 - Space Sled - A multipurpose apparatus for vestibular research aboard Spacelab [DGLR PAPER 78-132] p0042 A79-14083
 - Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission [DGLR PAPER 78-134] p0042 A79-14084
 - Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II [DGLR PAPER 78-183] p0070 A79-20024
 - The European life sciences experiments onboard the first Spacelab mission p0100 A79-22254
 - Spacelab's payload specialists, their selection and duties on-board p0226 A79-40720
- SPACELAB SIMULATION FLIGHTS**
- U ASSESS PROGRAM
 - SPATIAL FILTERING**
 - Experiments in texture perception [AD-A059630] p0086 N79-15587 - SPATIAL ORIENTATION**
 - U ATTITUDE (INCLINATION) - SPECIFICATIONS**
 - Design specification for the whole-body algorithm [NASA-CR-160226] p0212 N79-24641 - SPECTRA**
 - NT ABSORPTION SPECTRA
 - NT INFRARED SPECTRA
 - NT NEUTRON SPECTRA
 - NT RADIATION SPECTRA
 - NT SHOCK SPECTRA
 - NT VIBRATIONAL SPECTRA - SPECTRAL ABSORPTION**
 - U ABSORPTION SPECTRA - SPECTRAL ANALYSIS**
 - U SPECTRUM ANALYSIS - SPECTRAL BANDS**
 - NT ABSORPTION SPECTRA - SPECTRAL SENSITIVITY**
 - Detection of coloured stimuli by independent linear systems p0231 A79-42229 - SPECTROPHOTOMETRY**
 - Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors

Noninvasive estimation of bilirubin and hemoglobin oxygen saturation in the skin by reflection spectrophotometry	p0274 A79-50230	A three dimensional discrete element dynamic model of the spine, head and torso	p0285 N79-31909
SPECTROSCOPIC ANALYSIS	p0054 N79-13684	Analytical modelling of load-deflection behavior of intervertebral discs subjected to axial compression [AD-A071019]	p0285 N79-31910
Study of model membrane fusion using photon correlation spectroscopy --- lipid bilayer phase transition in cell membranes	p0147 N79-19591	SPINE	p0316 N79-33830
SPECTROSCOPY		Incidence of spinal disability amongst IAP pilots - Follow up of 38 cases	p0201 A79-37133
NT ABSORPTION SPECTROSCOPY		Vertebral fractures in Gnat ejections	p0201 A79-37134
NT MASS SPECTROSCOPY		Spinal injury pattern due to ejections	p0272 A79-49734
NT RAMAN SPECTROSCOPY		Radiological diagnosis of spinal injuries and deformities	p0272 A79-49735
NT SPECTROPHOTOMETRY		Assessment of spinal disabilities in relation to flying	p0272 A79-49736
NT SPECTROSCOPIC ANALYSIS		Radiological examination of the Rachis and fitness for employment as a helicopter pilot	p0151 N79-19634
NT ULTRASONIC SPECTROSCOPY		Spine immobilization method and apparatus --- rigid bladder [NASA-CASE-ARC-11167-1]	p0279 N79-30921
Development and application of resistive pulse spectroscopy: Studies on the size; form and deformability of red blood cells [LBL-8640]	p0280 N79-30924	The use of spinal analogue to compare human tolerance of repeated shocks with tolerance of vibration, part 1	p0288 N79-31926
SPECTRUM ANALYSIS		SPIROMETERS	
NT CEPSTRAL ANALYSIS		Selection of astronaut candidates - Contribution of the exercise ECG and spirography	p0047 A79-15489
Iodine imaging using spectral analysis --- radiography for visualization of small blood vessels	p0294 A79-51034	SPORES	
Analysis of visible spectra and thermodynamic parameters in hemeprotein systems	p0144 N79-18579	Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation	p0131 A79-26147
SPEECH		SPRAYED PROTECTIVE COATINGS	
NT WORDS (LANGUAGE)		U PROTECTIVE COATINGS	
Voice communication in artificial atmospheres --- Russian book	p0048 A79-16500	SPRAYING	
Relationship between the reproduction tactics and the major indices of speech retention-reproduction processes	p0254 A79-46276	Risks from various products used in paint spraying [BLL-RTS-11499]	p0142 N79-18569
Speech quality measurement [AD-A056272]	p0033 N79-11745	SPRINGS (ELASTIC)	
SPEECH DISCRIMINATION		Influences of joystick spring resistance on the execution of simple and complex positioning movements	p0119 N79-17517
U SPEECH RECOGNITION		SPRINGS (WATER)	
SPEECH RECOGNITION		Amino acids in southern Kamchatka hot springs	p0182 A79-33122
Effects of phase manipulation on speech intelligibility through communication headsets --- light aircraft radio communication	p0164 A79-30654	STABILITY	
Automatic recognition of spoken words using a functional model of the auditory system	p0235 A79-43464	NT AERODYNAMIC STABILITY	
Human factors. Speech communication [PS-5/78]	p0113 N79-16555	NT AIRCRAFT STABILITY	
Speech as a pilot input medium	p0119 N79-17519	NT DYNAMIC STABILITY	
A preliminary investigation of aural input/output systems for in-flight information retrieval [AD-A063174]	p0178 N79-21770	NT FLOW STABILITY	
SPEED INDICATORS		NT HOVERING STABILITY	
NT HOT-FILM ANEMOMETERS		NT MOTION STABILITY	
SPERMATOGENESIS		NT STORAGE STABILITY	
State of spermatogenesis in rats flown aboard Kosmos-690 biosatellite	p0014 N79-10704	NT SYSTEMS STABILITY	
Spermatogenesis in dogs during many years of chronic exposure to gamma radiation and in the aftereffect period	p0073 N79-14727	NT THERMAL STABILITY	
SPHEROIDS		STABILITY AUGMENTATION	
NT PROLATE SPHEROIDS		An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016]	p0052 N79-12709
SPHYGMOGRAPHY		STABILIZATION	
Analyses for noninvasive monitoring of arterial blood pressure by /I/ phono cuff-sphygmomanometry, for discrete measurements and /II/ arterial ultrasonic imaging, for continuous measurements	p0294 A79-51037	Quality of retinal image stabilization during small natural and artificial body rotations in man	p0225 A79-40187
SPINAL CORD		Motion and vision. I - Stabilized images of stationary gratings	p0278 A79-50986
NT SPINE		STANDARDIZATION	
Dynamic response of vertebral elements related to USAF injury [AD-A059489]	p0071 N79-14713	Review of unfolding methods used in the US and their standardization for dosimetry [BNWL-SA-6503]	p0307 N79-32828
Tolerance of the neck to indirect impact [AD-A066971]	N79-25749	STANDARDS	
Simulation of head and neck response to -G sub x and +G sub z impacts	p0285 N79-31908	Protection standards for microwave and radiofrequency radiations	p0300 A79-52878
A three-dimensional mathematical analogue of the spine structure: A comprehensive approach		Standardized examination methods in ergometry	p0029 N79-11710
		MM/1, a man - machine interface: A contribution towards a standard [NPL-CSU-2/78]	p0197 N79-23669

Impact tests on crash helmets for motor cyclists [AD-A065966]	p0197 N79-24655	
The biodynamic response of the human body and its application to standards		
STARFIGHTER AIRCRAFT	p0288 N79-31929	
U F-104 AIRCRAFT		
STARLIFTER AIRCRAFT		
U C-141 AIRCRAFT		
STARS		
NT MAIN SEQUENCE STARS		
STATIC PRESSURE		
NT HYDROSTATIC PRESSURE		
STATICS		
NT HYDROSTATICS		
STATIONS		
NT ORBITAL SPACE STATIONS		
NT ORBITAL WORKSHOPS		
NT SALYUT SPACE STATION		
NT SPACE STATIONS		
A human body and crew station modelling system for motion studies	p0287 N79-31922	
STATISTICAL ANALYSIS		
NT ANALYSIS OF VARIANCE		
NT FACTOR ANALYSIS		
NT MULTIVARIATE STATISTICAL ANALYSIS		
NT NONPARAMETRIC STATISTICS		
NT NORMAL DENSITY FUNCTIONS		
NT PEARSON DISTRIBUTIONS		
NT REGRESSION ANALYSIS		
NT STATISTICAL TESTS		
Experimental designs for investigating complex human operator/machine systems	p0040 A79-13225	
Estimating percentiles of nonnormal anthropometric populations - Final report	p0065 A79-18226	
Statistical studies of animal response data from USP toxicity screening test method	p0066 A79-18305	
Are evolutionary rates really variable --- in vertebrate protein chemistry	p0232 A79-42273	
Statistical considerations in man-machine designs	p0033 N79-11743	
The distribution of cadmium and other metals in human tissues [PB-285200/2]	p0057 N79-13703	
Determination of a generalized output index of a biological experiment after multiple tests	p0076 N79-14744	
A computer system for statistical analysis of EEG transients	p0216 N79-25707	
STATISTICAL DISTRIBUTIONS		
NT PEARSON DISTRIBUTIONS		
Estimating percentiles of nonnormal anthropometric populations [AD-A061151]	p0122 N79-17535	
STATISTICAL TESTS		
A comparison of three models for determining test fairness [AD-A066586]	N79-25751	
STEADY STATE		
User's instructions for the 41-node thermoregulatory model (steady state version) [NASA-CR-160220]	p0212 N79-24638	
STEERING		
Vehicle Steering control: A model of learning steering behaviour and manual control actions.	p0089 N79-15606	
Part 1: An evaluation of the literature and a research plan [IZP-1978-3]	p0146 N79-18594	
A two level model of human steering behavior in a motor vehicle [PB-27]	p0197 N79-24657	
STELLAR DOPPLER SHIFT		
U DOPPLER EFFECT		
U EXTRATERRESTRIAL RADIATION		
STELLAR MASS		
Habitable zones about main sequence stars	p0136 A79-27930	
STEREOCHEMISTRY		
Mirror symmetry breaking in biochemical evolution	p0254 A79-46462	
STEREOGRAPHY		
U STEREOFOTOGRAPHY		
STEREOPHOTOGRAPHY		
The robot's eyes - Stereo vision system for automated scene analysis	p0004 A79-12006	
Analysis of body form using biostereometrics [NASA-CR-160173]	p0195 N79-23654	
STEREOSCOPIC PHOTOGRAPHY		
U STEREOFOTOGRAPHY		
STEREOSCOPIC VISION		
The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight	p0062 A79-18206	
The visual perception of motion in depth	p0210 A79-39087	
The relationship between the apparent vertical and the vertical horopter --- visual perception of luminous line	p0225 A79-40186	
Texture contours can facilitate stereopsis by initiating vergence eye movements	p0270 A79-48816	
Stereopsis in monkeys using random dot stereograms - The effect of viewing duration	p0271 A79-49481	
Stereo 3-D perception for a robot	p0019 N79-10740	
STEREOSCOPY		
NT STEREOFOTOGRAPHY		
STEREOTELEVISION		
A binocular stereoscopic display system for echocardiography	p0130 A79-26072	
STERILIZATION		
NT SPACECRAFT STERILIZATION		
STERILIZATION EFFECTS		
NT CHEMICAL EFFECTS		
NT DECONTAMINATION		
NT THERMAL DEGRADATION		
The Department of the Army's food irradiation program: Is it worth continuing [PB-286399/1]	p0094 N79-15644	
STEROIDS		
NT ALDOSTERONE		
NT CHOLESTEROL		
NT CORTICOSTEROIDS		
Comparison of plasma and urinary steroids in men with type A and type B behavior patterns	p0028 N79-11704	
STIFF STRUCTURES		
U RIGID STRUCTURES		
STIFFENING		
Spine immobilization method and apparatus --- rigid bladder [NASA-CASE-ARC-11167-1]	p0279 N79-30921	
STIMULANT		
NT NORADRENALINE		
NT NOREPINEPHRINE		
STIMULATED EMISSION DEVICES		
NT LASERS		
NT PULSED LASERS		
STIMULATION		
NT AUDITORY STIMULI		
NT SENSORY STIMULATION		
Carbohydrate metabolism of the stimulated diaphragm muscle	p0050 N79-12689	
Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction	p0260 N79-28876	
STOCHASTIC PROCESSES		
NT RANDOM PROCESSES		
Discrimination of density and clustering on four versions of a stochastic display --- human performance of pattern recognition	p0036 A79-13192	
Are evolutionary rates really variable --- in vertebrate protein chemistry	p0232 A79-42273	
Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations [BMVG-PBWT-78-11]	p0146 N79-18593	
A stochastic model of muscle fatigue in frequent strenuous work cycles	p0261 N79-29789	
STOICHIOMETRY		
Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for		

SUBJECT INDEX

STRESS (PSYCHOLOGY)

- sodium ions in *Halobacterium halobium* -
Translocation stoichiometries and apparent
cooperativity p0002 A79-10425
- STOMACH**
Indomethacin-antihistamine combination for gastric
ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
The influence of SHF electromagnetic fields on the
secretory function of the stomach p0173 N79-20740
- STORAGE STABILITY**
Gas diffusion liquid storage bag and method of use
for storing blood [NASA-CASE-NPO-13930-1] p0076 N79-14749
Maximizing storage stability of foods to be used
for resupply in a controlled ecological life
supply system: Evaluation of research [NASA-CR-158846] p0260 N79-28880
- STORAGE TANKS**
A system for sterilizing objects --- such as water
systems on the space shuttle using ethylene oxide
[NASA-CASE-KSC-11085-1] p0318 N79-33848
- STRAIN GAGES**
In-vivo bone strain telemetry in monkeys /M.
nemestrina/ p0002 A79-10608
Single frequency RF powered ECG telemetry system
p0131 A79-26074
- STRATA**
NT SUBSTRATES
- STRATOSPHERE RADIATION**
The dose rate of cosmic ray radiation received by
a biological target in the stratosphere and at
altitudes of satellite orbits p0233 A79-42623
- STRATOTANKER AIRCRAFT**
J C-135 AIRCRAFT
- STRENGTH OF MATERIALS**
□ MECHANICAL PROPERTIES
- STRESS (PHYSIOLOGY)**
NT ACCELERATION STRESSES (PHYSIOLOGY)
NT CENTRIFUGING STRESS
Heat transfer and temperature distribution in the
human body p0041 A79-13612
Effect of water and electrolyte replacement during
exercise in the heat on biochemical indices of
stress and performance p0127 A79-24629
Functional changes in the cardiovascular system of
machine-tool operators under physical and
neurologically stressful loads p0160 A79-29270
Conjoint effect of physical stress and noise
stress on information processing performance and
cardiac response p0161 A79-29715
Cardiac response to whole-body heating
p0165 A79-30661
Energetic aspects of adaptation --- Russian book
on metabolic responses to stress p0167 A79-31906
Predicting coronary artery disease with treadmill
stress testing Changes in R-wave amplitude
compared with ST segment depression p0186 A79-34284
Pathophysiology of overloads: Bibliography of
Soviet publications --- Russian book
p0200 A79-36385
Predictive accuracy of Q-X/Q-T ratio, Q-Tc
interval, S-T depression and R wave amplitude
during stress testing --- heart pathology
p0225 A79-40464
Response of women mountaineers to maximal exercise
during hypoxia p0234 A79-43201
Inhibition of the pituitary-adrenal response to
stress during deprivation-induced feeding
p0235 A79-43605
Comparative study of hypoxia and other
non-invasive stress tests for evaluation of
ischaemic heart disease p0272 A79-49731
Electrophysiological investigation of sleep during
work-shift regime and production-induced
emotional stress p0276 A79-50655
- Medical qualification procedures for
hazardous-duty aeromedical research
p0026 N79-11695
- Gas exchange under environmental stress
[AD-A058242] p0056 N79-13697
Fighter index of thermal stress: Development of
interim guidance for hot-weather USAF operations
[AD-A053471] p0056 N79-13699
Stress in air traffic controllers: A restudy of
32 controllers 5 to 9 years later
[FAA-AM-78-40] p0144 N79-18581
Criteria for maximum tolerable heat stress. A
proposal [IZP-1978-13] p0144 N79-18583
Stress factors on pilot performance. A
bibliography with abstracts [NTIS/PS-78/1289/4] p0145 N79-18589
Human exposure to mechanical vibration at lying
posture in the ambulance helicopter UH-1D
p0149 N79-19617
Implementation of a divisional aviation program to
decrease flight crew fatigue p0150 N79-19624
Fighter index of thermal stress: Relation to
weather conditions at ATC and TAC bases
[AD-A062713] p0174 N79-20748
Effects of fatigue on human behavior and
performance. A bibliography with abstracts
[NTIS/PS-79/0071/5] p0177 N79-21762
Cardiac adaptation to endurance training:
Determined by echocardiography and
electrocardiography p0194 N79-23648
Stress and fatigue in the driving environment ---
physiological and psychological effects of heat
and noise experienced inside automobiles
p0211 N79-24629
Design specification for the whole-body algorithm
[NASA-CR-160226] p0212 N79-24641
Stress and simulation in pilot training
[AD-A066670] p0222 N79-25757
Effects of vibration on the human organism
p0249 N79-27862
Stress management: A comparison of educational,
aerobic and autosuggestive approaches
p0260 N79-28875
Stress factors on pilot performance. Citations
from the International Aerospace Abstracts data
base [NTIS/PS-79/0506/0] p0260 N79-28878
Medical and operational factors of accidents in
advanced fighter aircraft p0290 N79-31944
The causes of decrements in aircrew performance
physiological changes produced by vibration and
other environmental stresses and response of the
cardiovascular system to vibration and combined
stress [AD-A069952] p0318 N79-33845
STRESS (PSYCHOLOGY)
Mental work and emotions --- Russian book
p0002 A79-10847
Sustained operations and sleep deprivation -
Effects on indices of stress p0009 A79-12859
Functional changes in the cardiovascular system of
machine-tool operators under physical and
neurologically stressful loads p0160 A79-29270
Conjoint effect of physical stress and noise
stress on information processing performance and
cardiac response p0161 A79-29715
Saccadic velocity characteristics - Intrinsic
variability and fatigue p0165 A79-30663
Cardiac changes during behavioral stress in dogs
p0200 A79-36575
Psychosocial aspects of syncope and vertigo in
aircrew p0027 N79-11701
Life stress, organizational stress, and job
satisfaction [AD-A055153] p0057 N79-13706
Methodology to assess psychological stress and its
impact in the air combat environment
[AD-A053474] p0057 N79-13707
Effects of fatigue on human behavior and
performance. A bibliography with abstracts

STRESS ANALYSIS

SUBJECT INDEX

[NTIS/PS-79/0071/5] p0177 N79-21762
 Stress management: A comparison of educational, aerobic and autosuggestive approaches p0260 N79-28875
 Stress factors on pilot performance. Citations from the International Aerospace Abstracts data base [NTIS/PS-79/0506/0] p0260 N79-28878
 Between incident and accident p0292 N79-31953

STRESS ANALYSIS
 Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300

STRESS CALCULATIONS
 U STRESS ANALYSIS

STRESS-STRAIN RELATIONSHIPS
 Dynamic response of vertebral elements related to USAF injury [AD-A059489] p0071 N79-14713

STRESSES
 NT AXIAL STRESS
 NT COMBINED STRESS
 NT TENSILE STRESS
 NT THERMAL STRESSES
 NT VIBRATIONAL STRESS

STROBOSCOPES
 Factors controlling the competing sensations produced by a bistable stroboscopic motion display p0104 A79-24067
 Perception of continuity in stroboscopic motion - A temporal frequency analysis p0186 A79-34375
 Form information is necessary for the perception of motion p0232 A79-42235

STRONTIUM
 Strontium metabolism in the rebuilding of skeletal tissue [NASA-CR-160195] p0216 N79-25713

STRUCTURAL BASINS
 NT LAKE CHAMPLAIN BASIN (NY-VT)

STRUCTURAL DESIGN
 A method motion simulator design based on modeling characteristics of the human operator p0091 N79-15623
 The design and construction of a miniature dosimeter for the study of the effects of air cavities in radiation therapy p0176 N79-21757
 Application of a structured decision process for proper inclusion of human resources in the design of a power unit support stand [AD-A069978] p0309 N79-32840

STRUCTURAL MEMBERS
 NT MEMBRANE STRUCTURES

STRUCTURAL VIBRATION
 NT FLUTTER

STS
 U SPACE TRANSPORTATION SYSTEM

SUBGRAVITY
 U REDUCED GRAVITY

SUBLAYERS
 U SUBSTRATES

SUBMERGED BODIES
 NT DIVING (UNDERWATER)
 Minimum sea surface temperatures and associated survival times [AD-A070162] p0315 N79-33824

SUBMERGING
 Fluid shifts during initial phase of immersion diuresis in man p0185 A79-33804
 Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
 Comparison of physiological effects of head-down tilting and immersion on the human body p0298 A79-52279
 Survival and protection of aircrew in the event of accidental immersion in cold water [AGARD-AG-211(ENG)] p0196 N79-23661

SUBROUTINES
 Evaluation of exercise-respiratory system modifications and preliminary respiratory-circulatory system integration scheme [NASA-CR-160221] p0212 N79-24639
 Evaluation of exercise-respiratory system modifications and integration schemes for

physiological systems [NASA-CR-160223] p0219 N79-25733

SUBSTANCES
 U MATERIALS

SUBSTRATES
 Evolution of enzyme function - The coupled oscillator theory p0205 A79-37970

SUBTROPICAL REGIONS
 U TEMPERATE REGIONS

SUBZERO TEMPERATURE
 Bimodal relationship of human tremor and shivering on introduction to cold exposure p0298 A79-52278

SUGARS
 NT GLUCOSE
 NT HEXOSSES
 NT INOSITOLS

SUITABILITY
 Ergonomics laboratory studies pilots' stability for command --- psychophysiological characteristics p0121 N79-17529

SUITS
 NT PRESSURE SUITS
 NT SPACE SUITS
 Improved airline-type supplied-air plastic suit [DPSPT-78-30-12] p0282 N79-30943

SULFATES
 NT BARITE
 Sulfate-reducing bacteria and biochemical evolution p0205 A79-37967

Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
 Citric acid enhancement of copper sulfate toxicity to the blue-green algae "aphanizomenon flos-aquae" and "microcystis aeruginosa" [PB-291637/7] p0189 N79-22751

SULFIDES
 NT HYDROGEN SULFIDE

SULFUR COMPOUNDS
 NT BARITE
 NT HYDROGEN SULFIDE
 NT ORGANIC SULFUR COMPOUNDS
 NT SULFATES
 NT SULFUR DIOXIDES
 NT SULFUR OXIDES
 NT SULFURIC ACID

SULFUR DIOXIDES
 The impact of sulfur dioxide on vegetation: A sulfur dioxide-ozone response model [PB-283604/7] p0049 N79-12686

SULFUR OXIDES
 NT SULFUR DIOXIDES
 Electrophoresis pattern of serum from mice exposed to different concentrations of sulfur dioxide p0147 N79-19027

SULFURIC ACID
 The effects of H₂SO₄ on men and H₂SO₄ and O₃ on laboratory animals p0141 N79-18354

SUNGGLASSES
 The want and feasibility to temper sunlight for the eyes [IZF-1977-21] p0122 N79-17538
 Sunglasses for drivers? [IZF-1977-24] p0122 N79-17539

SUNLIGHT
 Visual performance assessment through clear and sunscreen-treated windows [AD-A059750] p0080 N79-14775
 The want and feasibility to temper sunlight for the eyes [IZF-1977-21] p0122 N79-17538

SUPERHIGH FREQUENCIES
 Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field p0074 N79-14737

SUPersonic AIRCRAFT
 NT F-4 AIRCRAFT
 NT F-15 AIRCRAFT
 NT F-16 AIRCRAFT
 NT F-104 AIRCRAFT
 NT F-111 AIRCRAFT
 NT JAGUAR AIRCRAFT
 Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet

fighter	p0209 A79-38821	Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins
SUPINE POSITION		p0287 N79-31925
Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions	p0161 A79-29336	Minimum sea surface temperatures and associated survival times [AD-A070162]
Limb blood flow - Rest and heavy exercise in sitting and supine positions in man	p0235 A79-43208	p0315 N79-33824
Changes in human renal function in passive head-up and head-down positions	p0072 N79-14722	SURVIVAL EQUIPMENT
The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +Gsub z acceleration [PPRC-1362]	p0248 N79-27856	An overview of helicopter mission specific survival equipment
The effect of acceleration and seat back angle on performance of a reaction time task [PPRC-1364]	p0248 N79-27857	Current trends in UK military aircrew survival equipment
The influence of seat back angle on acceleration tolerance [PPRC-1365]	p0248 N79-27858	Cold water survival suits for aircrew [ARL/SYS-NOTE-56]
SUPPLYING	p0242 N79-27603	Cold water survival suits for aircrew p0298 A79-52282
Energy supply and demand in California		SWAMPS U MARSHLANDS
SUPPORT SYSTEMS		SWEAT
NT CLOSED ECOLOGICAL SYSTEMS		Sweating responses during heat acclimation and moderate conditioning
NT EMERGENCY LIFE SUSTAINING SYSTEMS		p0185 A79-33803
NT LIFE SUPPORT SYSTEMS		Effect of rate of change in skin temperature on local sweating rate
NT PORTABLE LIFE SUPPORT SYSTEMS		The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans
SUPPRESSION		p0195 N79-23651
U RETARDING		SWEATING U PERSPIRATION
SURFACE COOLING		SWIMMING
An improved method for inducing hypothermia and rewarming	p0267 A79-47339	Thermoregulation in swimmers and runners
SURFACE VEHICLES		p0227 A79-41186
NT AIRCRAFT CARRIERS		SWITCHES
NT AUTOMOBILES		NT SWITCHING CIRCUITS
NT BOATS		SWITCHING CIRCUITS
NT MOTOR VEHICLES		Control logic design criteria for multifunction switching devices --- in aircraft
NT ROCKET PROPELLED SLEDS		p0064 A79-18223
NT SLEDS		SWITCHING ELEMENTS
NT TRACTORS		U SWITCHING CIRCUITS
NT TRANSPORTER		SYMMETRICAL BODIES
NT TRUCKS		NT BODIES OF REVOLUTION
NT WALKING MACHINES		SYMPATHETIC NERVOUS SYSTEM
Reduced mental capacity and behavior of a rider of a bicycle simulator under alcohol stress or under dual task load	p0116 N79-17489	The role of the neurohormone system of the hypothalamus in physiology and pathology --- Russian book
A two level model of human steering behavior in a motor vehicle [FB-27]	p0197 N79-24657	p0251 A79-43835
SURFACTANTS		SYMPATHOMIMETICS
Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology	p0256 A79-46603	U ADRENERGICS
SURGEONS		SYMPTOMOLOGY
NT FLIGHT SURGEONS		Vertebral pains in helicopter pilots --- symptomatology and radiology
SURGERY		p0153 N79-19656
NT LABYRINTHECTOMY		SYMPTOMS
Equipment for surgical interventions and childbirth in weightlessness [IAF PAPER 79-97]	p0302 A79-53296	U SIGNS AND SYMPTOMS
The role of computer technology mathematical models in treatment of patients following heart surgery	p0170 N79-20721	SYNAPSES
SURVEILLANCE RADAR		Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782
Evolution of the man-machine interface in surveillance radar systems	p0001 A79-10322	p0101 A79-23468
SURVEYING		SYNCHRONIZERS
U SURVEYS		Devices for synchronizing a digital measuring apparatus with biological signals
SURVEYS		p0160 A79-29271
A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel [AD-A067826]	p0281 N79-30933	SYNCOPE
SURVIVAL		NT BLACKOUT (PHYSIOLOGY)
Head acceleration and psychomotor performance --- related to crash accident survival rates	p0135 A79-27559	SYNDROMES
The effect of 17alpha-ethynodiol on the radiation sensitivity of mice	p0141 N79-18557	U SIGNS AND SYMPTOMS
		SYNTAX
		NT WORDS (LANGUAGE)
		SYNTHETIC APERTURE RADAR
		Synthetic aperture radar operator tactical target acquisition research
		p0037 A79-13202
		SYNTHETIC FUELS
		Mutagenic components of alternate energy sources [CONF-780636-8]
		p0280 N79-30923
		SYNTHETIC RESINS
		NT ACRYLIC RESINS
		SYNTHETIC RUBBERS
		NT ELASTOMERS
		SYSTEM EFFECTIVENESS
		Target acquisition in realistic terrain
		p0037 A79-13203

SYSTEM FAILURES**SUBJECT INDEX**

- Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216
- Recent studies of simulation training effectiveness [SAE PAPER 781006] p0130 A79-25888
- The impact of a Learn-Forget-Learn (LFL) curve and learning curves on a system effectiveness model [AD-A061622] p0124 N79-17550
- SYSTEM FAILURES**
- The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156
- The effects of participatory mode and task workload on the detection of dynamic system failures p0116 N79-17487
- SYSTEMS ANALYSIS**
- Modeling and analysis using SAINT - A combined discrete/continuous network simulation language --- Systems Analysis of Integrated Network of Tasks for RPV p0004 A79-11480
- Control theory and biosystems: Analysis of homeostatic properties --- Russian book p0186 A79-34506
- Some properties of conservative systems --- walking robot model p0221 A79-35942
- The conception of the systems analytic approach to planning and organization of medical scientific research p0078 N79-14764
- The systems analytic approach to the problem of classification of scientific medical research p0078 N79-14766
- Use of the systems analytic approach for organization and coordination of complex biomedical research p0079 N79-14767
- Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552
- The application of sensitivity analysis to models of large scale physiological systems [NASA-CR-160228] p0213 N79-24645
- User's instructions for the Guyton circulatory dynamics model using the Univac 1110 batch and demand processing (with graphic capabilities) [NASA-CR-160215] p0218 N79-25731
- The application of systems analysis and mathematical models to the study of erythropoiesis during space flight [NASA-CR-160218] p0219 N79-25739
- Flight prototype CO2 and humidity control system [NASA-CR-160224] p0222 N79-25760
- Analytical methods for biotechnological design of man machine systems: Work on system ergonomy [FB-28] p0242 N79-26787
- The systemic principles of building a man-machine control staff --- functional analysis p0249 N79-27861
- Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730] p0282 N79-30942
- SAINT: A combined simulation language for modeling man-machine systems p0317 N79-33842
- SYSTEMS COMPATIBILITY**
- Piloted aircraft simulation - Advantages, disadvantages, and practical problems [SAE PAPER 780548] p0001 A79-10407
- System operability - Concept and measurement in test and evaluation --- man system compatibility indices in F-18 aircraft example p0062 A79-18204
- SYSTEMS DESIGN**
- J SYSTEMS ENGINEERING
- SYSTEMS ENGINEERING
- NT COMPUTER SYSTEMS DESIGN
- Systems integration in the development of controlled ecological life support systems [AIAA PAPER 79-1406] p0187 A79-34842
- Pilot-optimal augmentation synthesis p0088 N79-15603
- Optimisation of pilot capability and avionic system design [AGARD-AR-118] p0113 N79-16560

- Optimisation of pilot capability and avionic system design, introduction p0113 N79-16561
- Systems design p0114 N79-16563
- A wide aperture focussed ultrasound system for detection of breast carcinoma by ultrasonic attenuation p0142 N79-18577
- Human factors evaluations of today's helicopters as an aid to future systems design p0150 N79-19627
- Application of a structured decision process for proper inclusion of human resources in the design of a power unit support stand [AD-A069978] p0309 N79-32840
- SYSTEMS MANAGEMENT**
- A model of the human supervisor p0117 N79-17495
- SYSTEMS STABILITY**
- Biped stability considerations with vestibular models p0066 A79-18287
- Study report on guidelines and test procedures for investigating stability of nonlinear cardiovascular control system models [NASA-CR-160229] p0219 N79-25734
- SYSTOLE**
- Systolic time intervals during combined hand cooling and head-up tilt p0135 A79-27554
- Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers p0030 N79-11717
- T**
- TACTILE DISCRIMINATION**
- Evaluation of kinesthetic-tactile displays using a critical tracking task p0119 N79-17516
- TAGGING**
- U MARKING
- TALKING**
- NT WORDS (LANGUAGE)
- TANKER AIRCRAFT**
- Visual system for the Boom Operator Part Task Trainer --- KC-135 aerial refueling task simulator p0137 A79-28162
- TANKS (CONTAINERS)**
- NT STORAGE TANKS
- TARE (DATA REDUCTION)**
- U DATA REDUCTION
- TARGET ACQUISITION**
- Synthetic aperture radar operator tactical target acquisition research p0037 A79-13202
- Target acquisition in realistic terrain p0037 A79-13203
- Observer performance using a video display --- in simulated air to ground target acquisition tasks p0039 A79-13217
- Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery p0046 A79-14969
- Target-terrain classification and detection performance --- to assess aerial photos for tanks p0065 A79-18225
- Line criteria in target acquisition with television --- visibility of target image on TV screen p0068 A79-18997
- Visual target acquisition and ocular scanning performance p0069 A79-19000
- Real-time reconnaissance systems simulator p0139 A79-28175
- The role of perceived motion in smooth pursuit eye movements p0225 A79-40184
- The effect of expectations on slow oculomotor control. I - Periodic target steps. II - Single target displacements p0225 A79-40185
- The relative effects of multiple factors on target acquisition --- by combat pilots p0267 A79-47765
- A behavioral model of target acquisition in realistic terrain

[AD-A056760]	p0019 N79-10742	p0039 A79-13212
Effects of uncertainty on manual tracking performance --- visual tasks	p0086 N79-15592	p0039 A79-13214
Prediction, evaluation, and specification of flying qualities by means of step target tracking	p0088 N79-15604	The man-computer division of tasks in the case of the control of complex technical systems --- applied to aircraft
Head aiming/tracking accuracy in a helicopter environment	p0153 N79-19651	p0061 A79-17683
The relationship between Air Combat Maneuvering Range (ACMR) output measures and initial visual acquisition performance	p0173 N79-20744	An algorithm to ascertain critical regions of human tracking ability
[AD-A062134]		p0163 A79-30218
A study of pilot/observed interaction in aligning a helicopter with a target	p0283 N79-30945	Measurement and scaling of workload in complex performance
[DLR-FB-79-04]		p0164 A79-30659
TARGET RECOGNITION		A preliminary study of the air traffic controller's 'picture'
Target-terrain classification and detection performance --- to assess aerial photos for tanks	p0065 A79-18225	p0221 A79-36227
Peripheral acuity and photointerpretation performance	p0068 A79-18996	Visual search for complex targets
Dynamics of an image viewed through a rotating mirror	p0221 A79-36365	p0208 A79-38357
Effects of stimulus onset and image motion on contrast sensitivity	p0231 A79-42231	Pilot workload in the aircraft of the future
The effect of increased monitoring load on vigilance performance using a simulated radar display	p0236 A79-43674	p0226 A79-40646
Pursuit after-nystagmus	p0271 A79-49484	Pilot workload during final approach in congested airspace
Mutual repulsion between moving visual targets	p0275 A79-50473	p0269 A79-48014
Latency of peripheral saccades	p0278 A79-50987	Modeling the human as a controller in a multitask environment
Target redundancy in visual search - Do repetitions of the target within the display impair processing	p0299 A79-52540	p0087 N79-15595
The behavior of observers in detecting unbriefed targets at different aircraft speeds with side-looking radar	p0085 N79-15586	Prospects of a mathematical theory of human behavior in complex man-machine systems tasks --- time sharing computer analogy of automobile driving
[AD-A060908]		p0088 N79-15599
Evaluation of four target-identification training techniques	p0123 N79-17548	Petri nets as a modeling tool for discrete concurrent tasks of the human operator --- describing sequential and parallel demands on human operators
[AD-A061175]		p0088 N79-15600
A review of individual performance in air-to-ground target detection and identification studies	p0124 N79-17551	A model for dynamic allocation of human attention among multiple tasks
[AD-A061580]		p0092 N79-15627
Estimation of aircraft target motion using pattern recognition orientation measurements	p0177 N79-21764	A model of human event detection in multiple process monitoring situations
TARGET SIMULATORS		p0092 N79-15632
Visual search for complex targets	p0208 A79-38357	A quasi-linear control theory analysis of timesharing skills
Predicting aircraft detectability	p0208 A79-38358	p0115 N79-17479
TARGETS		Two measures of performance in a peg-in-hole manipulation task with force feedback
The relationship between Air Combat Maneuvering Range (ACMR) output measures and initial visual acquisition performance	p0173 N79-20744	p0118 N79-17506
[AD-A062134]		Task complexity and 24-hr performance patterns in morning and evening active subjects
TASK COMPLEXITY		[FOA-C-52001-H6] p0122 N79-17537
Development and transfer of timesharing skills --- for human multiple task performance	p0035 A79-13184	Time-sharing ability in complex performance: An expanded replication
The application of computer aided evaluative techniques to system test and evaluation --- of fighter aircraft pilot performance	p0036 A79-13190	[FOA-AM-78-33] p0145 N79-18591
Tracking in two dimensions as a function of dimension priorities and tracking difficulty	p0036 A79-13193	Simulated EVA operation of a remote connector assembly test report
The event related cortical potential as an index of task workload	p0038 A79-13208	[NASA-CR-161167] p0156 N79-19687
Response surface methodology as a manipulator of complex task difficulty --- for computer generated aircraft area navigation control-display systems evaluation	p0039 A79-13211	Study of modeling and evaluation of remote manipulation tasks with force feedback
Task taxonomy - Two ignored issues --- criteria for task evaluation with respect to empirical data		[NASA-CR-158721] p0242 N79-26785
		Analytical methods for biotechnological design of man machine systems: Work on system ergonomics [FB-28] p0242 N79-26787
		Some human responses to repeated +G sub z pulses p0288 N79-31928
		Performance and workload analysis of inflight helicopter missions [MLR-MP-77013-U] p0308 N79-32834
TASKS		
NT AUDITORY TASKS		
NT VISUAL TASKS		
Effect of induced cyclic changes of deep body temperature on task performances		p0202 A79-37708
A study of the available evidence on duration effects on comfort and task proficiency under vibration		p0254 A79-46399
Study of crew task loading on the C-141A aircraft [AD-A057346]		p0034 N79-11746
ARPA authoring system		p0190 N79-22762
[AD-A064723]		
TASTE		
Current conceptions of the mechanism of the effect of chemical stimulus on taste receptors		p0043 A79-14375
TAXONOMY		
Task taxonomy - Two ignored issues --- criteria		

TCV PROGRAM

SUBJECT INDEX

for task evaluation with respect to empirical data p0039 A79-13212

Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms [NBC/CNR-TT-1924] p0120 N79-17521

TCV PROGRAM

U TERMINAL CONFIGURED VEHICLE PROGRAM

TEACHING

U EDUCATION

TEACHING MACHINES

Development of techniques to enhance man/machine communication [NASA-CR-157886] p0032 N79-11730

TEAMS

Team performance - A model for research p0065 A79-18227

TECHNIQUES

U METHODOLOGY

TECHNOLOGICAL FORECASTING

NT DELPHI METHOD (FORECASTING)

Challenges to life support system's future [ASME PAPER 78-ENAS-28] p0008 A79-12577

Very-large-scale integration - What it means for technical systems and humans p0181 A79-32640

Oral/nasal breathing systems in the year 2000 p0183 A79-33621

Pilot workload in the aircraft of the future p0226 A79-40646

TECHNOLOGIES

NT BIOTECHNOLOGY

NT MILITARY TECHNOLOGY

TECHNOLOGY ASSESSMENT

Very-large-scale integration - What it means for technical systems and humans p0181 A79-32640

Synthetic training and evaluation - Some current issues p0275 A79-50550

Current status of cardiovascular imaging by transmission computed tomography p0294 A79-51032

Evolution of space suit technology [IAF PAPER 79-92] p0302 A79-53293

A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4] p0059 N79-13719

A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720

Assessing the efficacy and safety of medical technologies [PB-286929/5] p0085 N79-15580

Translations on USSR science and technology: Biomedical and behavioral sciences, no. 50 [JPRS-72462] p0170 N79-20720

Space biology and aerospace medicine, v. 13, no. 3, 1979 [JPRS-73784] p0243 N79-27817

TECHNOLOGY TRANSFER

NT AEROSPACE TECHNOLOGY TRANSFER

The Department of the Army's food irradiation program: Is it worth continuing [PB-286399/1] p0094 N79-15644

Regional program for acquisition of medical experiments [NASA-CR-160121] p0155 N79-19677

TECHNOLOGY UTILIZATION

Overview of the use of robots in space missions [DGLR PAPER 78-154] p0042 A79-14099

TEETH

Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment p0022 N79-11667

TELECHIRICS

U REMOTE HANDLING

TELECOMMUNICATION

NT AIRCRAFT COMMUNICATION

NT BIOTELEMETRY

NT COLOR TELEVISION

NT COMMUNICATION

NT RADIO TELEMETRY

NT STEREOTELEVISION

NT TELEMETRY

NT VOICE COMMUNICATION

Telemedicine: An expanding new science on land and sea p0146 N79-19020

Telehealth handbook: A guide to telecommunications technology for rural health care [PB-292557/6] p0241 N79-26778

TELEMETERS

U TELEMETRY

TELEMETRY

NT BIOTELEMETRY

NT RADIO TELEMETRY

Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022

TELEOPERATORS

Adaptive supervisory control of remote manipulation p0046 A79-14987

Advanced teleoperators --- remote manipulation system p0187 A79-34982

Construction in space - Toward a fresh definition of the man/machine relation p0187 A79-34985

Computer augmented manual control of remote manipulators p0269 A79-48019

Human/computer control of undersea teleoperators p0089 N79-15612

Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552

TELESCOPES

An interface evaluation of the XM-29 protective mask and the AH-1S telescopic sight unit [AD-A064203] p0190 N79-22764

TELETYPEWRITERS

Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772

TELEVISION CAMERAS

The robot's eyes - Stereo vision system for automated scene analysis p0004 A79-12006

TELEVISION EQUIPMENT

NT TELEVISION CAMERAS

TELEVISION SYSTEMS

NT COLOR TELEVISION

NT STEREOTELEVISION

A visual simulator with transformation of the perspective in the raster of television pictures --- German book on pilot training systems p0069 A79-19375

Telemedicine: An expanding new science on land and sea p0146 N79-19020

TELLEGEM THEORY

U NETWORK ANALYSIS

TEMPERATE REGIONS

Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985

TEMPERATURE

NT AMBIENT TEMPERATURE

NT ATMOSPHERIC TEMPERATURE

NT BODY TEMPERATURE

NT LOW TEMPERATURE

NT SATELLITE TEMPERATURE

NT SKIN TEMPERATURE (BIOLOGY)

NT SUBZERO TEMPERATURE

NT WATER TEMPERATURE

TEMPERATURE CONTROL

Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22] p0007 A79-12571

Simulation and control of a human temperature regulation system p0041 A79-13613

Importance of temperature control for HEPLEX, a biological experiment for Spacelab 1 --- plant gravitational physiology study p0230 A79-41716

TEMPERATURE DIFFERENCES

U TEMPERATURE GRADIENTS

TEMPERATURE DISTRIBUTION

The local and time-dependent temperature field in the body of a homeothermic organism in case of sudden changes of quantity and local

SUBJECT INDEX**TEXTURES**

distribution of internal heat production	p0128 A79-24699	
Apparatus for supplying conditioned air at a substantially constant temperature and humidity [NASA-CASE-GSC-12191-1]	p0156 N79-19688	
TEMPERATURE EFFECTS		
A composite view of task performance in hot environments	p0036 A79-13186	
Temperature effect of muscular work in the white rat during hypoxia	p0097 A79-20654	
Discrimination, temperature, and time of day --- human performance variances	p0161 A79-29718	
Characteristics of EEG changes in rabbits in response to local cooling or heating of the central thermosensory area	p0221 A79-36097	
Thermal activation of the visual transduction mechanism in retinal rods	p0230 A79-41746	
Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task	p0234 A79-43204	
Relationship between thermogenic drinking and plasma renin activity in the rat	p0235 A79-43211	
Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft	p0236 A79-43675	
Temperature effects on shape and function of human granulocytes [AD-A063750]	p0189 N79-22757	
Effects of sleep at altered ambient temperatures on electrophysiological sleep and thermoregulatory mechanisms in human subjects and in the ground squirrel (<i>Citellus lateralis</i>)	p0216 N79-25709	
TEMPERATURE FIELDS		
U TEMPERATURE DISTRIBUTION		
TEMPERATURE GRADIENTS		
Effect of cockpit temperature gradients on the validity of single-point measurements	p0234 A79-43203	
TEMPERATURE INDICATORS		
U INDICATING INSTRUMENTS		
U TEMPERATURE MEASURING INSTRUMENTS		
TEMPERATURE INSTRUMENTS		
U TEMPERATURE MEASURING INSTRUMENTS		
TEMPERATURE INVERSIONS		
NT CENTRIFUGING STRESS		
TEMPERATURE MEASUREMENT		
Core temperature measurement in man	p0010 A79-12862	
Measurement of skin temperatures of active subjects by wireless telemetry	p0011 A79-12872	
Effect of cockpit temperature gradients on the validity of single-point measurements	p0234 A79-43203	
Pattern of heat loss from a subject wearing CP temperate-climate combat clothing [AD-A057746]	p0093 N79-15636	
TEMPERATURE MEASURING INSTRUMENTS		
Temperature changes during exercise measured by thermography	p0235 A79-43209	
Microwave thermography: Physical principles and diagnostic applications	p0083 N79-15567	
TENSILE STRESS		
Investigation of blood subjected to volume tension	p0275 A79-50261	
TERMINAL CONFIGURED VEHICLE PROGRAM		
Advanced transport operation effects on pilot scan patterns	p0295 A79-51098	
Evaluation of display and control concepts for a terminal configured vehicle in final approach in a windshear environment	p0090 N79-15616	
TERMINAL GUIDANCE		
Adaptive control of a robotic manipulator	p0046 A79-15001	
Terminal guidance sensor system [NASA-CASE-NPO-14521-1]	p0174 N79-20746	
TERMINOLOGY		
Anthropometry		
		p0032 N79-11737
TERNARY SYSTEMS (DIGITAL)		
U DIGITAL SYSTEMS		
TERAIN		
Adaptive locomotion of a multilegged robot over rough terrain	p0163 A79-30217	
TERAIN ANALYSIS		
Target acquisition in realistic terrain	p0037 A79-13203	
Target-terrain classification and detection performance --- to assess aerial photos for tanks	p0065 A79-18225	
TERRAIN FOLLOWING AIRCRAFT		
Visual workload of the copilot/navigator during terrain flight	p0038 A79-13206	
Visual workload of the copilot/navigator during terrain flight	p0209 A79-38364	
TERRESTRIAL PLANETS		
NT EARTH (PLANET)		
NT MARS (PLANET)		
TEST BEDS		
U TEST EQUIPMENT		
TEST CHAMBERS		
NT HYPERBARIC CHAMBERS		
NT PHOTOTRONS		
NT PRESSURE CHAMBERS		
Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56]	p0003 A79-11224	
The influence of hyperbaric environment in combination with workload and confinement on human information processing [DLR-FB-78-12]	p0280 N79-30926	
Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822]	p0283 N79-31897	
TEST EQUIPMENT		
Instrumentation and techniques for the measurement of muscular strength and endurance in the human body [AD-A061023]	p0155 N79-19681	
A subhuman primate restraint system [AD-A069607]	p0279 N79-30915	
TEST FACILITIES		
NT MISSILE RANGES		
NT TEST RANGES		
NT TEST STANDS		
The role of physical examinations and education in prospective medicine	p0026 N79-11694	
TEST RANGES		
NT MISSILE RANGES		
Air Combat Maneuvering Range /ACMR/ - Has operational performance measurement entered a Golden Age	p0064 A79-18221	
TEST STANDS		
The dynamic oxygen-regulator test stand [AD-A060978]	p0125 N79-17560	
TEST VEHICLES		
Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods	p0287 N79-31924	
TESTERS		
U TEST EQUIPMENT		
TESTES		
Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue	p0075 N79-14738	
TESTING		
U TESTS		
TESTING MACHINES		
U TEST EQUIPMENT		
TESTS		
Report of the Workshop on Biological Screening Tests [PB-294303/3]	p0279 N79-30916	
TEXTURES		
Texture contours can facilitate stereopsis by initiating vergence eye movements	p0270 A79-48816	
Experiments in texture perception [AD-A059630]	p0086 N79-15587	

TFX AIRCRAFT		p0261 N79-29788
U F-111 AIRCRAFT		
THEOREMS		
NT BAYES THEOREM		
THERAPY		
NT CHEMOTHERAPY		
NT PSYCHOTHERAPY		
NT RADIATION THERAPY		
Hyperthermia in the treatment of cancer: A review of the radiobiological basis	p0017 N79-10729	
Temperature uniformity in hyperthermal tumor therapy	p0018 N79-10730	
A microangiographic study of the effect of hyperthermia on the rabbit bladder	p0018 N79-10732	
Isokinetic exercise: A review of the literature [NASA-CR-151841]	p0051 N79-12695	
The child in coma	p0094 N79-15890	
Coma recovery	p0094 N79-15891	
Vision	p0095 N79-15894	
Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement	p0110 N79-16534	
Effects of vibration on the human organism	p0249 N79-27862	
THERMAL COMFORT		
Thermal bounds to the time of stay of human beings in enclosures	p0231 A79-41770	
Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations	p0266 A79-47334	
Bimodal relationship of human tremor and shivering on introduction to cold exposure	p0298 A79-52278	
THERMAL CONDUCTIVITY		
Thermal conduction effects in human skin	p0265 A79-47329	
Evaluation of British and Canadian conductive rubber heating elements for handwear: Preliminary report [AD-A052826]	p0093 N79-15637	
Thermal conduction effects in human skin. 1: Experimental data acquisition [AD-A068479]	p0259 N79-28871	
Thermal conduction effects in human skin. 3: Influence of epidermal thickness and exposure time [AD-A068481]	p0259 N79-28872	
THERMAL CURRENTS		
U CONVECTIVE FLOW		
THERMAL CYCLING TESTS		
Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation	p0131 A79-26147	
Effect of induced cyclic changes of deep body temperature on task performances	p0202 A79-37708	
Effect on performance of cycling deep body temperature between 37.0 and 37.6 C	p0274 A79-49993	
THERMAL DECOMPOSITION		
NT PYROLYSIS		
THERMAL DEGRADATION		
Effect of fiber and dye degradation products /FDP/ on burn wound healing	p0298 A79-52277	
THERMAL EFFECTS		
U TEMPERATURE EFFECTS		
THERMAL ENVIRONMENTS		
Thermal bounds to the time of stay of human beings in enclosures	p0231 A79-41770	
THERMAL INSULATION		
Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946]	p0223 N79-25766	
THERMAL MAPPING		
Pattern of heat loss from a subject wearing CF temperate-climate combat clothing [AD-A057746]	p0093 N79-15636	
THERMAL POLLUTION		
Results of benthic studies at Calvert Cliffs		
[PB-294261/3]		
THERMAL PROTECTION		
Heat transfer principles in personal protection applications	p0043 A79-14405	
Development of integrated tubing fabric for liquid conditioning undergarments	p0044 A79-14415	
Bioassay of thermal protection afforded by candidate flight suit fabrics	p0298 A79-52280	
Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis	p0153 N79-19662	
THERMAL RADIATION		
Thermally induced retina injury due to high doses of optical radiation	p0278 A79-50974	
THERMAL RESISTANCE		
Thermal resistance of naturally occurring airborne bacterial spores --- Viking spacecraft dry heat decontamination simulation	p0131 A79-26147	
Development of the CWU-48/P high temperature resistant aramid knit flyer's coverall [AD-A059128]	p0059 N79-13716	
THERMAL RESOURCES		
NT GEOTHERMAL RESOURCES		
THERMAL STABILITY		
Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature	p0206 A79-37976	
Temperature uniformity in hyperthermal tumor therapy	p0018 N79-10730	
THERMAL STRESSES		
Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool	p0037 A79-13196	
Cardiac response to whole-body heating	p0165 A79-30661	
Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India	p0201 A79-37135	
The effect of thermal stimulation of the skin on activity of lateral crescent interneurons of lumbar segments	p0208 A79-38147	
A comparison of the physiological responses in young men and women to heat and cold stress [AD-A061024]	p0155 N79-19679	
Fighter index of thermal stress: Relation to weather conditions at ATC and TAC bases [AD-A062713]	p0174 N79-20748	
THERMALIZATION (ENERGY ABSORPTION)		
Classical theory of microwave interactions with biological systems	p0082 N79-15556	
THERMODYNAMIC EQUILIBRIUM		
Equations on biotransport mechanisms	p0304 A79-53535	
THERMODYNAMIC PROPERTIES		
NT THERMAL CONDUCTIVITY		
NT THERMAL STABILITY		
THERMODYNAMICS		
Thermodynamic studies on the oxygenation and subunit association of human hemoglobin	p0142 N79-18576	
Analysis of visible spectra and thermodynamic parameters in hemeprotein systems	p0144 N79-18579	
THERMOELECTRIC GENERATORS		
A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19]	p0007 A79-12568	
THERMOGRAMS		
U TEMPERATURE MEASURING INSTRUMENTS		
THERMOHEMATICS		
U THERMODYNAMICS		
THERMOMETRY		
U TEMPERATURE MEASUREMENT		
THERMOPHILES		
Temperature-dependent morphological changes in membranes of <i>Bacillus stearothermophilus</i>	p0005 A79-12475	
Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature		

THERMOPHILIC PLANTS	p0206 A79-37976	Nonshivering thermogenesis in normal and dystrophic muscle
NT BLUE GREEN ALGAE		p0054 N79-13680
THERMOPHYSICAL PROPERTIES		
NT THERMAL CONDUCTIVITY		Crawford and Lavoisier on the method of development and place of formation of body heat [BLL-RTS-11228]
NT THERMAL STABILITY		p0142 N79-18568
THEMOPHYSICS		The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans
U THERMODYNAMICS		p0195 N79-23651
THEMORECEPTORS		
Neurophysiology of thermal reception	p0043 A79-14374	
THEMOREGULATION		Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon dioxide production during fever and its relationship with heat production
Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool	p0037 A79-13196	[NASA-TM-75452] p0211 N79-24632
Heat transfer and temperature distribution in the human body	p0041 A79-13612	Transient thermoregulatory model with graphics output
Simulation and control of a human temperature regulation system	p0041 A79-13613	[NASA-CR-160217] p0212 N79-24637
Thresholds for Na ⁺ / and Ca ⁺⁺ / effects on thermoregulation	p0045 A79-14774	User's instructions for the 41-node thermoregulatory model (steady state version)
Regulation and efficiency of sweating in man /Mathematical modeling/	p0097 A79-20622	[NASA-CR-160220] p0212 N79-24638
Temperature effect of muscular work in the white cat during hypoxia	p0097 A79-20654	The application of sensitivity analysis to models of large scale physiological systems
Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m	p0102 A79-23474	[NASA-CR-160228] p0213 N79-24645
The effects of different levels of heat production induced by diathermy and eccentric work on thermoregulation during exercise at a given skin temperature	p0128 A79-24698	Effects of sleep at altered ambient temperatures on electrophysiological sleep and thermoregulatory mechanisms in human subjects and in the ground squirrel (<i>Citellus lateralis</i>)
The local and time-dependent temperature field in the body of a homeothermic organism in case of sudden changes of quantity and local distribution of internal heat production	p0128 A79-24699	p0216 N79-25709
Thermoregulation in <i>Macaca mulatta</i> - A thermal balance study	p0133 A79-27101	User's instructions for the cardiovascular Walters model
Model of human heat exchange and identification of its parameters Physiological studies and mathematical modeling	p0159 A79-28739	[NASA-CR-160204] p0217 N79-25721
Studies on thermoregulation in the rat	p0162 A79-30019	Modifications to the steady-state 41-node thermoregulatory model including validation of the respiratory and diffusional water loss equations
Effect of sodium and calcium ingestion on thermoregulation during exercise in man	p0163 A79-30624	[NASA-CR-160219] p0219 N79-25738
Effect of the blockade of hypothalamic adrenergic structures on thermoregulatory reactions	p0167 A79-31950	The application of MINIQUASI to thermal program boundary and initial value problems
Control of skin blood flow during exercise - Thermal and nonthermal factors	p0185 A79-33807	[NASA-CR-160227] p0222 N79-25759
Characteristics of EEG changes in rabbits in response to local cooling or heating of the central thermosensory area	p0221 A79-36097	THERMOSTABILITY
Skin temperature changes in paradoxical sleep in man in the cold	p0201 A79-37706	U THERMAL STABILITY
Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G	p0227 A79-41185	THERMOTROPISM
Thermoregulation in swimmers and runners	p0227 A79-41186	U TEMPERATURE EFFECTS
Hyperthermia and exercise --- plasma fluid and electrolyte effects on human thermoregulation	p0252 A79-44775	THORAX
Role of skin temperature in the control of sweating	p0277 A79-50907	Review of chest deflection measurement techniques and transducers
Bimodal relationship of human tremor and shivering on introduction to cold exposure	p0298 A79-52278	[PB-283654/2] p0051 N79-12702
Bio-heat transfer processes, for human thermoregulatory and circulatory characteristics measurements	p0304 A79-53536	THREE DIMENSIONAL MOTION
Influence of skin temperature on sweating and aerobic performance during severe work	p0305 A79-54268	Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements
		[ASME PAPER 78-WA/BIO-5] p0069 A79-19759
		The interpretation of visual motion --- Book
		p0186 A79-34424
		A spherical representation of a human body for visualizing movement
		p0301 A79-53096
		THRESHOLDS (PERCEPTION)
		Apparent saturation of blue-sensitive cones occurs at a color-opponent stage
		p0002 A79-10474
		Intrinsic noise, threshold sensitivity, and adaptation of the retina
		p0043 A79-14373
		The equivalent background and retinal eccentricity
		p0104 A79-24066
		Omnidirectional increase in threshold for image shifts during saccadic eye movements
		p0139 A79-28198
		Experimental investigation of the visual system using one-dimensional Walsh gratings
		p0160 A79-29249
		Visual contrast sensitivity functions obtained with colored and achromatic gratings
		p0181 A79-32628
		Detection of coloured stimuli by independent linear systems
		p0231 A79-42229
		Evidence for the equivalent-background hypothesis in cones --- for dark adaptation thresholds
		p0232 A79-42233
		Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons
		p0232 A79-42234
		Temporary threshold shift from transportation noise
		p0254 A79-46286

THROMBOSIS

SUBJECT INDEX

- Using color substitution pupil response to expose chromatic mechanisms p0265 A79-47116
- Direction-selective adaptation with very slow motion p0265 A79-47118
- Effect of adaptation level on certain visual functions in man p0296 A79-51328
- Upper-velocity threshold for detection of movement p0299 A79-52541
- Arousal from sleep by emergency alarms: Implications from the scientific literature [PB-284044/5] p0051 N79-12700
- Vestibular models and thresholds of motion perception. Result of tests in a flight simulator [VTF-LR-265] p0146 N79-18595
- Predicting individual listener confusions in the classification of complex, steady-state sounds [AD-A066704] p0222 N79-25755
- Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254] p0290 N79-31942
- THROMBOSIS**
- Effects of dietary fats on atherosclerosis and thrombosis p0240 N79-26776
- THYMIDINE**
- The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells p0141 N79-18558
- THYROID GLAND**
- 3'-5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- THYROID GLAND**
- Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle p0296 A79-51111
- Morphological distinctions of the rat thyroid and parathyroid following long-term space flights p0246 N79-27835
- TIBIA**
- In-vivo bone strain telemetry in monkeys /M. nemestrina/ p0002 A79-10608
- Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone p0222 N79-11666
- TILT**
- U ATTITUDE (INCLINATION)
- TLITING**
- U ATTITUDE (INCLINATION)
- TIME**
- NT REACTION TIME
- Concept definition for an extended duration orbiter ECLSS [NASA-CR-160164] p0197 N79-23666
- TIME DELAY
- U TIME LAG
- TIME DEPENDENCE**
- A composite view of task performance in hot environments p0036 A79-13186
- Discrimination, temperature, and time of day --- human performance variances p0161 A79-29718
- A study of the available evidence on duration effects on comfort and task proficiency under vibration p0254 A79-46399
- TIME DISCRIMINATION**
- Carbon monoxide and human time discrimination - Failure to replicate Beard-Wertheim experiments p0102 A79-23472
- TIME FUNCTIONS**
- Discrete time modeling of heavy transport plane pilot behavior p0118 N79-17508
- TIME LAG**
- Perceptual delay - A consequence of metacontrast and apparent motion p0035 A79-13183
- A comparison of control modes for time-delayed remote manipulation p0163 A79-30223
- Influence of light adaptation on dark adaptation time for pattern recognition tasks [FB-31] p0316 N79-33835
- TIME MEASUREMENT**
- Time estimation as a technique to measure workload --- of aircraft pilot in flight simulation p0062 A79-18203
- Spatial summation in human vision - Simple reaction time measurements p0265 A79-47115
- Pilot workload during final approach in congested airspace p0269 A79-48014
- Time estimation as a secondary task to measure workload: Summary of research p0093 N79-15634
- TIME RESPONSE**
- The problem of optimally fast response as solved by the nerve cell p0166 A79-31179
- Visual search for complex targets p0208 A79-38357
- Regression models of search time for color-coded information displays p0209 A79-38359
- TIME SERIES ANALYSIS**
- Simulation study on time series of heart responses p0037 A79-13197
- Study of modeling and evaluation of remote manipulation tasks with force feedback [NASA-CR-158721] p0242 N79-26785
- TIME SHARING**
- Development and transfer of timesharing skills --- for human multiple task performance p0035 A79-13184
- Tracking in two dimensions as a function of dimension priorities and tracking difficulty p0036 A79-13193
- Time-sharing is not a unitary ability [AD-A056632] p0019 N79-10739
- Prospects of a mathematical theory of human behavior in complex man-machine systems tasks --- time sharing computer analogy of automobile driving p0088 N79-15599
- A quasi-linear control theory analysis of timesharing skills p0115 N79-17479
- Time-sharing ability in complex performance: An expanded replication [FAA-AM-78-33] p0145 N79-18591
- TIMING**
- U TIME MEASUREMENT
- TISSUES (BIOLOGY)**
- Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna p0136 A79-27959
- Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen p0164 A79-30655
- Biological effects of electromagnetic fields p0184 A79-33711
- The effect of hyperoxia on the oxygen tension of blood and cerebral tissue p0208 A79-38146
- Moving phase transitions in laser-irradiated biological tissue p0228 A79-41478
- Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues p0233 A79-42932
- Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0234 A79-43205
- System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1] p0013 N79-10694
- Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue --- COSMOS 782 p0020 N79-11653
- Responses of crown gall tissue to the space environment: Tumor development and anatomy --- cosmos 782 p0020 N79-11654
- Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782 p0020 N79-11655

- Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782 p0020 N79-11656
- Diffracton-based characterization of biological tissue with ultrasound --- acoustic scattering from liver tissue p0054 N79-13683
- Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
- Coupling apparatus for ultrasonic medical diagnostic system [NASA-CASE-NPO-13935-1] p0077 N79-14751
- Microwave and RF dosimetry p0083 N79-15561
- Electric field measurements within biological media p0083 N79-15562
- Raman and infrared investigations of the nature of intracellular water [AD-A061254] p0120 N79-17522
- Mathematical studies of oxygen transport to tissue p0170 N79-20723
- Electrical parameter values of some human tissues in the radiofrequency radiation range [AD-A064202] p0189 N79-22754
- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia p0194 N79-23644
- Application of pattern recognition to ultrasonic tissue characterization p0194 N79-23647
- An investigation of the pulse-scatter imaging technique for medical ultrasonic imaging and tissue characterization p0211 N79-24628
- Strontium metabolism in the rebuilding of skeletal tissue [NASA-CR-160195] p0216 N79-25713
- Multifunctional transducer [NASA-CASE-NPO-14329-1] p0219 N79-25737
- Dose-effect relationships for ultrasound irradiation of brain tissue p0242 N79-27812
- Preparation of guinea pig macrophage for electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
- Ultrasonic tissue characterization II [PB-296356/9] p0316 N79-33836
- TOCOPHEROL**
Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation p0067 A79-18965
- TOLERANCES (MECHANICS)**
NT IMPACT TOLERANCES
- TOLERANCES (PHYSIOLOGY)**
NT ACCELERATION TOLERANCE
NT ALTITUDE TOLERANCE
NT COLD TOLERANCE
NT HEAT TOLERANCE
NT HUMAN TOLERANCES
NT RADIATION TOLERANCE
Survival and protection of aircrew in the event of accidental immersion in cold water [AGARD-AG-211(ENG)] p0196 N79-23661
Animal endurance to recurrent impact accelerations p0246 N79-27833
- TOGRAPHY**
Digital enhancement of computerized axial tomograms p0004 A79-11544
High-speed computerized tomography p0004 A79-12030
A binocular stereoscopic display system for echocardiography p0130 A79-26072
Computerized positron emission tomography /PET/ for the assessment of myocardial integrity p0293 A79-51031
Current status of cardiovascular imaging by transmission computed tomography p0294 A79-51032
- Computed axial tomography (CAT) [ISS-R-78/4] p0262 N79-29791
- TONOMETRY**
U INTRAOCCULAR PRESSURE
U PRESSURE MEASUREMENTS
- TONUS**
U MUSCULAR TONUS
- TOPOGRAPHY**
NT TERRAIN
- TORQUE**
Passive resistive torques about long bone axes of major human joints p0298 A79-52283
- A quasi-linear control theory analysis of timesharing skills p0120 N79-17520
- TOUCH**
NT TACTILE DISCRIMINATION
- TOWED TARGETS**
U TARGETS
- TOXIC DISEASES**
NT CARBON MONOXIDE POISONING
- TOXIC HAZARDS**
A literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it [AD-A056018] p0025 N79-11686
A preliminary toxicological study of silastic 386 foam elastomer: catalyst [LA-7366-MS] p0071 N79-14714
Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
- Percutaneous absorption of toxic agents. Part 2: The nerve bases and some other toxic organophosphates. A survey of the literature. [PML-1978-9] p0123 N79-17542
- In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
- Report of the Workshop on Biological Screening Tests [PB-294303/3] p0279 N79-30916
- Mutagenic components of alternate energy sources [CONP-780636-8] p0280 N79-30923
- TOXICITY**
NT CARBON MONOXIDE POISONING
Statistical studies of animal response data from USF toxicity screening test method p0066 A79-18305
- Mechanisms of the effect of oxygen toxicity on the energy metabolism p0160 A79-29275
- Morphological and biochemical effects of oxygen toxicity [AD-A056778] p0018 N79-10734
- A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11685
- Zinc [PB-285130/1] p0057 N79-13704
Risks from various products used in paint spraying [BLL-RTS-11499] p0142 N79-18569
Allergy to lanolin [BLL-RTS-11185] p0142 N79-18570
Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
Methods for measuring the acute toxicity of effluents to aquatic organisms [PB-289605/8] p0170 N79-20719
Orenburg symposium on mycotoxins p0175 N79-21749
Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4] p0197 N79-25706
Acute toxicity of a number of chemicals of interest to the Air Force [AD-A067313] p0220 N79-25742
Toxicity of oxygen mixed with helium p0245 N79-27829
- Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870
- Report of the Workshop on Biological Screening Tests [PB-294303/3] p0279 N79-30916

- Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs [AD-A070299] p0314 N79-33821
- TOXICITY AND SAFETY HAZARD**
- A literature review-problem definition studies on selected toxic chemicals. Volume 5: Occupational health and safety and environmental aspects of zinc chloride [AD-A056020] p0025 N79-11687
- A literature review-problem definition studies on selected toxic chemicals. Volume 8: Environmental aspects of diesel fuel and fog oils SGF number 1 and SGF number 2 and smoke screens generated from them [AD-A056021] p0025 N79-11688
- TOXICOLOGY**
- Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene p0066 A79-18306
- Two-week studies of survivors from exposures to pyrolysis gases p0066 A79-18307
- Weight control and restraint of laboratory rats p0133 A79-26584
- Characteristics of serious carbon monoxide poisoning p0167 A79-32100
- The toxicology of ozone. A bibliography with abstracts [NTIS/PS-78/1120/1] p0057 N79-13705
- Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium. Volume 2: USSR Symposium [PB-287219/0] p0112 N79-16546
- The effects of H₂SO₄ on men and H₂SO₄ and O₃ on laboratory animals p0141 N79-18354
- In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
- Health effects associated with diesel exhaust emissions, literature review and evaluation [PB-289817/9] p0171 N79-20727
- Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
- Citric acid enhancement of copper sulfate toxicity to the blue-green algae "aphanizomenon flos-aquae" and "microcystis aeruginosa" [PB-291637/7] p0189 N79-22751
- Evaluation of toxic effects of organic contaminants in recycled water [PB-291379/6] p0190 N79-22760
- Report of the Workshop on Biological Screening Tests [PB-294303/3] p0279 N79-30916
- TOXINS AND ANTITOXINS**
- NT ENDOTOXINS
- The effect of ultrasound on botulin toxin [AD-A059544] p0142 N79-18566
- TRACE CONTAMINANTS**
- Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research p0109 N79-16528
- Trace contaminant studies of HSC adsorbent [NASA-CR-160148] p0177 N79-21769
- TRACHEA**
- Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251
- TRACKING (POSITION)**
- NT COMPENSATORY TRACKING
- NT OPTICAL TRACKING
- NT PURSUIT TRACKING
- NT RADAR TRACKING
- NT RADIO TRACKING
- NT SATELLITE TRACKING
- WT WILDLIFE RADIOLOCATION
- Effects of vibration on humans - Performance decrements and limits p0035 A79-13185
- Effects of target motion and image on AAA tracking --- Anti-Aircraft Artillery p0046 A79-14969
- Secondary visual workload capability with primary visual and kinesthetic-tactual displays p0064 A79-18220
- Comparative evaluation of the effectiveness of visual and aural tracking of a sinusoidal signal p0159 A79-28736
- A comparison of kinesthetic-tactual and visual displays via a critical tracking task --- for aircraft control p0162 A79-29720
- An algorithm to ascertain critical regions of human tracking ability p0163 A79-30218
- A rationale for human operator pulsive control behavior p0186 A79-34520
- Test of the 10 bits/sec channel-capacity hypothesis for human tracking p0253 A79-45771
- Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
- Psychological aspects of the human-operator's activity while tracking [RAE-LIB-TRANS-1979] p0079 N79-14768
- Directional errors of movements and their correction in a discrete tracking task --- pilot reaction time and sensorimotor performance p0086 N79-15589
- Effects of uncertainty on manual tracking performance --- visual tasks p0086 N79-15592
- Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- AAA gunnermodel based on observer theory --- predicting a gunner's tracking response p0087 N79-15594
- Two dimensional eye tracking: Sampling rate of forcing function p0090 N79-15617
- Head tracking at large angles from the straight ahead position p0090 N79-15618
- The effects of closed loop tracking on a subjective tilt threshold in the roll axis p0090 N79-15620
- Use of the tilt cue in a simulated heading tracking task p0091 N79-15621
- Roll tracking effects of G-vector tilt and various types of motion washout p0091 N79-15622
- Linear modelling of attentional resource allocation p0091 N79-15626
- Parameter estimation in a human operator describing function model for a two-dimensional tracking task p0115 N79-17481
- Error rate information in attention allocation pilot models p0115 N79-17483
- The facilitating effects of uncertainty in long-term manual control p0115 N79-17485
- Multi-attribute subjective evaluations of manual tracking tasks vs. objective performance of the human operator p0116 N79-17486
- Prediction of pilot reserve attention capacity during air-to-air target tracking p0116 N79-17488
- A relationship between eye movement patterns and performance in a precognitive tracking task p0116 N79-17490
- The effect of a visual/motion display mismatch in a single axis compensatory tracking task p0118 N79-17511
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- Evaluation of kinesthetic-tactual displays using a critical tracking task p0119 N79-17516
- Influence of motion wash-out filters on pilot tracking performance [NLR-MP-78005-U] p0124 N79-17554
- Head aiming/tracking accuracy in a helicopter environment

TRACKING STUDIES	p0153 N79-19651	p0037 A79-13196
U TRACKING (POSITION)		Pilot performance during flight simulation with peripherally presented visual signals
TRACTORS		p0063 A79-18213
Sunglasses for drivers? [IZF-1977-24]		Simulator Training Requirements and Effectiveness Study /STRES/
TRAFFIC		p0063 A79-18216
NT AIR TRAFFIC		Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics
TRAFFIC CONTROL		p0064 A79-18217
NT AIR TRAFFIC CONTROL		A 25-inch precision color display for simulator visual systems
A decision model applied to alcohol effects on driver signal light behavior	p0092 N79-15630	p0137 A79-28164
TRAINERS		Application of Fresnel lenses to virtual image display --- for training simulators
U TRAINING DEVICES		p0139 A79-28173
TRAINING		Development of a performance criterion for air traffic personnel research through air traffic control simulation [AD-A058082]
TRAINING AIRCRAFT		p0031 N79-11727
NT JAGUAR AIRCRAFT		TRAJECTORY ANALYSIS
TRAINING DEVICES		The trajectories of saccadic eye movements
NT TEACHING MACHINES		p0065 A79-18250
Transfer of a computer-assisted instrument procedures trainer to flight	p0039 A79-13216	TRAJECTORY CONTROL
Life cycle costing of simulated vs actual equipment for intermediate maintenance training --- for F-16 avionics	p0064 A79-18217	NT TRAJECTORY OPTIMIZATION
Cost analysis of pilot training systems [SAE PAPER 781005]	p0130 A79-25887	TRAJECTORY OPTIMIZATION
Recent studies of simulation training effectiveness [SAE PAPER 781006]	p0130 A79-25888	An adaptive controller which displays human operator limitations for a fighter type aircraft
Recent developments and plans for pilot training devices [SAE PAPER 781007]	p0130 A79-25889	p0177 N79-21767
Psychologists vs engineers --- flight simulators training requirements	p0132 A79-26499	TRANSDUCERS
Application of computer animation for dynamic display in complex energy systems --- for human operator performance improvement	p0186 A79-34172	NT ELECTRONIC TRANSDUCERS
The relationship between flight simulator motion and training requirements	p0267 A79-47766	NT IMAGE TRANSDUCERS
Retention and transfer of training on a procedural task interaction of training strategy and cognitive style [AD-A058966]	p0052 N79-12704	NT ULTRASONIC WAVE TRANSDUCERS
TRAINING EVALUATION		In-vivo bone strain telemetry in monkeys /M. nemestrina/
Air Combat Maneuvering Range /ACMR/ - Has operational performance measurement entered a Golden Age	p0064 A79-18221	p0002 A79-10608
Cross-validation of regression equations to predict performance in a pursuit tracking task	p0064 A79-18222	Single frequency RF powered ECG telemetry system
Naval aviation training - Perspective and prospects [SAE PAPER 781004]	p0130 A79-25886	p0131 A79-26074
Recent studies of simulation training effectiveness [SAE PAPER 781006]	p0130 A79-25888	A study of noninvasive blood pressure measurement techniques
Army Aviation Training - Research now and then [SAE PAPER 781008]	p0130 A79-25890	p0294 A79-51036
Universal airborne approach to pilot performance assessment [SAE PAPER 781009]	p0130 A79-25891	Review of chest deflection measurement techniques and transducers
Training effectiveness versus simulation realism	p0138 A79-28166	[PB-283654/2]
Transfer of landing skill after training with supplementary visual cues	p0138 A79-28167	Multifunctional transducer [NASA-CASE-NPO-14329-1]
The evaluation of a complex computer-based flight procedures trainer	p0161 A79-29717	p0219 N79-25737
A7 training effectiveness through performance analysis --- carrier landing instruction [AD-A056230]	p0031 N79-11728	TRANSFER OF TRAINING
TRAINING SIMULATORS		Transfer of landing skill after training with supplementary visual cues
NT COCKPIT SIMULATORS		p0138 A79-28167
NT FLIGHT SIMULATORS		TRANSFORMATIONS (MATHEMATICS)
Models for automated motor skills training --- computer controlled adaptive instruction	p0035 A79-13182	NT FAST FOURIER TRANSFORMATIONS
Development and transfer of timesharing skills --- for human multiple task performance	p0035 A79-13184	Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues
Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool		p0233 A79-42932
TRANSITION METALS		TRANSPOSES
NT CADMIUM		U TRANSFORMATIONS (MATHEMATICS)
NT CHROMIUM ISOTOPES		TRANSIENT HEATING
NT IRON		Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues
NT PALLADIUM		p0233 A79-42932
NT PLATINUM		TRANSIENT RESPONSE
NT VANADIUM		Retinal site of transient tritanopia
		p0256 A79-46623
		The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator
		[RS-GMR-2394]
		p0115 N79-17484
		User's instructions for the Grodins' respiratory control model using the UNIVAC 1110 remote batch and demand processing
		[NASA-CR-160225]
		p0212 N79-24635
		Transient thermoregulatory model with graphics output
		[NASA-CR-160217]
		p0212 N79-24637
		Transient intraventricular conduction defects observed during experimental impact in human subjects
		p0285 N79-31907

TRANSLATIONAL MOTION

SUBJECT INDEX

ZINC
ZIRCONIUM
 Prebiotic coordination chemistry: The potential role of transition-metal complexes in the chemical evolution
 [NASA-TM-75381] p0169 N79-20715
TRANSLATIONAL MOTION
NT THREE DIMENSIONAL MOTION
 Multibody dynamics including translation between the bodies, with application to head-neck systems
 [AD-A062114] p0174 N79-20747
TRANSMISSION
NT CONDUCTIVE HEAT TRANSFER
NT DATA TRANSMISSION
NT ELECTRIC POWER TRANSMISSION
NT HEAT TRANSFER
NT LIGHT SCATTERING
NT LIGHT TRANSMISSION
NT RADIO TRANSMISSION
NT SIGNAL TRANSMISSION
TRANSMISSION CIRCUITS
 The use of hybrid integrated circuit techniques in biotelemetry applications p0131 A79-26145
TRANSOMIC AIRCRAFT
U SUPERSONIC AIRCRAFT
TRANSPORT AIRCRAFT
NT C-135 AIRCRAFT
NT C-141 AIRCRAFT
NT TANKER AIRCRAFT
 Discrete time modeling of heavy transport plane pilot behavior p0118 N79-17508
TRANSPORT COEFFICIENTS
U TRANSPORT PROPERTIES
TRANSPORT PROPERTIES
NT GASEOUS DIFFUSION
NT THERMAL CONDUCTIVITY
NT VISCOSITY
 Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for sodium ions in Halobacterium halobium - Translocation stoichiometries and apparent cooperativity p0002 A79-10425
 Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
 Equations on biotransport mechanisms p0304 A79-53535
 Mass transport in arteries p0247 N79-27848
TRANSPORT THEORY
 Mathematical studies of oxygen transport to tissue p0170 N79-20723
TRANSPORTATION
NT SPACE TRANSPORTATION SYSTEM
NT URBAN TRANSPORTATION
TRANSPORTER
 Animal life support transporters for Shuttle/Spacelab
 [ASME PAPER 78-ENAS-10] p0006 A79-12559
TRANSURANIUM ELEMENTS
NT AMERICIUM 241
TREADMILLS
 Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression p0186 A79-34284
 The evolutionary pattern of exercise-induced ST segment depression p0251 A79-44166
 Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill p0024 N79-11681
TREMORS
 Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
TRENDS
 Age trends in the cardiovascular dynamics of aircrewmen p0136 A79-27560
TRITIUM
 Evaluation of the risks involved in the application of tritium gas and measures which have to be taken

[MBL-1978-6] p0122 N79-17541

TROPISM
NT GEOTROPISM
TRUCKS
Evaluation of the amount of exposure to vibrations transmitted to the whole body case of vibrations due to a loader mounted on caterpillar tracks, a fork-lift truck and a hydraulic excavator [RAE-LIB-TRANS-1930] p0080 N79-14773

A methodology for conducting human factors evaluations of vehicles in operational field tests [AD-A061808] p0157 N79-19691

TRYPTAMINES
NT SEROTONIN
TRYPTOPHAN
Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672

TUMORS
NT CANCER
Temperature uniformity in hyperthermal tumor therapy p0018 N79-10730

The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum p0018 N79-10731

A microangiographic study of the effect of hyperthermia on the rabbit bladder p0018 N79-10732

Responses of crown gall tissue to the space environment: Tumor development and anatomy --- cosmos 782 p0020 N79-11654

Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782 p0020 N79-11655

Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782 p0020 N79-11656

Preparation of guinea pig macrophage for electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814

Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870

TURBOFAN AIRCRAFT
NT A-7 AIRCRAFT
NT C-141 AIRCRAFT
NT F-111 AIRCRAFT

TURBULENT DIFFUSION
Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251

TURBULENT FLOW
NT CAVITATION FLOW
TURNING FLIGHT
RNAV procedural turn anticipation techniques experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi offset tracking procedures [AD-A060501] p0085 N79-15583

TWITCHING
Mechanical efficiency of fast- and slow-twitch muscle fibers in man during cycling p0268 A79-47852

TYPEWRITERS
NT TELETYPEWRITERS

U

U TUBES
U MANOMETERS
U.S.S.R.
The cosmonaut in flight [NASA-TT-F-17438] p0032 N79-11729

Translations on USSR science and technology: Biomedical and behavioral sciences, no. 47 [JPRS-72134] p0071 N79-14708

Translations on USSR science and technology: Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606] p0074 N79-14736

Translations on USSR science and technology. Biomedical and behavioral science, no. 54 [JPRS-72650] p0077 N79-14753

Translations on USSR science and technology: Biomedical and behavioral sciences, no. 52 --- with emphasis on research management [JPRS-72604] p0078 N79-14760

Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57

U

U TUBES
U MANOMETERS
U.S.S.R.
The cosmonaut in flight
[NASA-TT-F-17438] p0032 N79-11729
Translations on USSR science and technology:
Biomedical and behavioral sciences, no. 47
[JPRS-72134] p0071 N79-14708
Translations on USSR science and technology:
Biomedical and behavioral sciences, No. 53.
Effects of nonionizing electromagnetic radiation
[JPRS-72606] p0074 N79-14736
Translations on USSR science and technology.
Biomedical and behavioral science, no. 54
[JPRS-72650] p0077 N79-14753
Translations on USSR science and technology:
Biomedical and behavioral sciences, no. 52 ---
with emphasis on research management
[JPRS-72604] p0078 N79-14760
Translations on USSR science and technology:
Biomedical and behavioral sciences, no. 57

- [JPRS-72808] p0121 N79-17526
 Environment monitoring in the USSR and hygienic practice --- anthropogenic effects p0121 N79-17528
- Translations on USSR science and technology:
 Biomedical and behavioral sciences, no. 60 p0175 N79-21745
 [JPRS-73135] p0175 N79-21745
 Space biology and aerospace medicine, v. 13, no. 3, 1979 p0243 N79-27817
 [JPRS-73784] p0243 N79-27817
 Translations on USSR science and technology:
 Biomedical and behavioral sciences, no. 81 p0249 N79-27860
 [JPRS-73729] p0249 N79-27860
 Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- U.S.S.R. SPACE PROGRAM**
 The joint US-USSR biological satellite program p0182 A79-33050
 Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report --- COSMOS 782 satellite p0021 N79-11662
- US experiments flown on the Soviet satellite COSMOS 936 p0023 N79-11671
 [NASA-TM-78526] p0023 N79-11671
 The Cosmos 936 mission p0023 N79-11672
 Light and color on a manned spacecraft p0059 N79-13996
 Space Biology and Aerospace Medicine, no. 4, 1979 p0310 N79-33789
- UH-1 HELICOPTER**
 Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter p0063 A79-18215
 Night rescue operation procedure over sea with bell UH-1D helicopters p0148 N79-19609
 An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
 Human exposure to mechanical vibration at lying posture in the ambulance helicopter UH-1D p0149 N79-19617
 Backache in UH-1D helicopter crews p0149 N79-19620
 Aviator visual performance: A comparative study of a helicopter simulator and the UH-1 helicopter p0153 N79-19652
- ULCERS**
 Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
 Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
- ULTRAHIGH FREQUENCIES**
 The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia p0296 A79-51116
- ULTRASONIC RADIATION**
 Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
 The effect of ultrasound on botulin toxin [AD-A059544] p0142 N79-18566
 Biomedical ultrasonoscope [NASA-CASE-ARC-10994-2] p0240 N79-26771
 Dose-effect relationships for ultrasound irradiation of brain tissue p0242 N79-27812
- ULTRASONIC SPECTROSCOPY**
 A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0045 A79-14602
- ULTRASONIC TESTS**
 Detection of bubbles in decompression sickness p0041 A79-13573
 A sample volume tracking unit for pulsed Doppler echocardiography p0200 A79-36869
- Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936 p0274 A79-49992
 Signal processing in ultrasound --- for diagnostic medicine p0294 A79-51039
 Quantitative flow estimation with transcutaneous Doppler ultrasound p0295 A79-51042
 Noninvasive ultrasonic blood flow characterization p0017 N79-10726
 New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1] p0018 N79-10735
 Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-284686/3] p0052 N79-12703
 Diffraction-based characterization of biological tissue with ultrasound --- acoustic scattering from liver tissue p0054 N79-13683
 Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582
 A wide aperture focussed ultrasound system for detection of breast carcinoma by ultrasonic attenuation p0142 N79-18577
 Application of pattern recognition to ultrasonic tissue characterization p0194 N79-23647
 An investigation of the pulse-scatter imaging technique for medical ultrasonic imaging and tissue characterization p0211 N79-24628
 Ultrasonic tissue characterization II [PB-296356/9] p0316 N79-33836
- ULTRASONIC WAVE TRANSDUCERS**
 Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers p0210 A79-39509
 Coupling apparatus for ultrasonic medical diagnostic system [NASA-CASE-NPO-13935-1] p0077 N79-14751
- ULTRASONIC WAVES**
U ULTRASONIC RADIATION
- ULTRASONICS**
 Analyses for noninvasive monitoring of arterial blood pressure by /I/ phono cuff-sphygmomanometry, for discrete measurements and /II/ arterial ultrasonic imaging, for continuous measurements p0294 A79-51037
 The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers p0030 N79-11718
 Suppression of the immune response by ultrasound p0142 N79-18560
- ULTRAVIOLET ABSORPTION**
 The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus p0005 A79-12512
- ULTRAVIOLET LIGHT**
U ULTRAVIOLET RADIATION
ULTRAVIOLET RADIATION
 An ultraviolet light induced bacteriophage in Beneckeia gazogenes --- organism growth on precambrian earth p0254 A79-46463
 Role of n-aminobenzoic acid in repairing UV and gamma radiation damage p0301 A79-53211
 Wavelength dependence of ultraviolet-enhanced reactivation and induction of mammalian viruses [HEW-PUB-FDA-78-8059] p0088 N79-15575
 Photosynthetic carbon reduction by seagrasses exposed to ultraviolet B radiation [NASA-CR-160144] p0175 N79-21742
 Acceptable radiation levels in the ultraviolet visible infrared regions [IZF-1978-15] p0248 N79-27853
- UNCONSCIOUSNESS**
NT BLACKOUT (PHYSIOLOGY)
 Incapacitation time for +Gz-induced loss of consciousness

Pilot incapacity in flight p0102 A79-23475
UNDERWATER VEHICLES
 Display aids for remote control of untethered undersea vehicles p0090 N79-15613
UNITED STATES OF AMERICA
 NT ARKANSAS
 NT CALIFORNIA
 NT MISSOURI
 NT NORTH CAROLINA
 US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525] p0020 N79-11651
 US experiments flown on COSMOS 782 p0020 N79-11652
 US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-78526] p0023 N79-11671
 The Cosmos 936 mission p0023 N79-11672
UNIVERSE
 Chirality of compounds essential for the existence of life, and the possibility of its evolution in the universe p0186 A79-34464
UNMANNED SPACECRAFT
 NT BIOSATELLITES
UNSTEADY FLOW
 Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers p0210 A79-39509
UNSTEADY STATE
 Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles p0286 N79-31917
URBAN AREAS
 U CITIES
URBAN TRANSPORTATION
 Effects of deceleration and rate of deceleration on live seated human subjects [PB-284653/3] p0057 N79-13702
UREAS
 Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
URINALYSIS
 Circadian rhythm of electrolyte uresis in healthy persons p0257 A79-46681
 Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888] p0055 N79-13692
 Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
 Four-man rated dual catalyst system for the recovery of water from urine [NASA-CR-15227] p0112 N79-16550
 Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [PAA-AM-78-40] p0144 N79-18581
URINATION
 Prosthetic urinary sphincter [NASA-CASE-MFS-23717-1] p0077 N79-14756
URINE
 Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0028 N79-11704
 Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643
 Urine collection apparatus [NASA-CASE-MSC-18381-1] p0195 N79-23657
 Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
UROLOGY
 Prosthetic urinary sphincter [NASA-CASE-MFS-23717-1] p0077 N79-14756
USA (UNITED STATES)
 U UNITED STATES OF AMERICA

USER MANUALS (COMPUTER PROGRAMS)
 Human operator identification model and related computer programs [NASA-CR-152237] p0112 N79-16551
 User's instructions for the Grodins' respiratory control model using the UNIVAC 1110 remote batch and demand processing [NASA-CR-160225] p0212 N79-24635
 Transient thermoregulatory model with graphics output [NASA-CR-160217] p0212 N79-24637
 User's instructions for the 41-node thermoregulatory model (steady state version) [NASA-CR-160220] p0212 N79-24638
 User's instructions for the erythropoiesis regulatory model [NASA-CR-160193] p0216 N79-25711
 On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
 User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735
 User's guide for the Skylab integrated medical data analysis system [NASA-CR-160189] p0220 N79-25740
UTILITY AIRCRAFT
 NT UH-1 HELICOPTER
UTILIZATION
 NT LASER APPLICATIONS
 NT WASTE UTILIZATION
 The utilisation of organic compounds by purple bacteria in the presence of light [BLL-RTS-11213] p0141 N79-18556

V

V/STOL AIRCRAFT
 NT HELICOPTERS
 NT MILITARY HELICOPTERS
 NT UH-1 HELICOPTER
 NT VERTICAL TAKEOFF AIRCRAFT
VACUUM APPARATUS
 New combined aspirator for sampling developed p0170 N79-20722
VACUUM TUBE OSCILLATORS
 NT CATHODE RAY TUBES
VACUUM TUBES
 NT CATHODE RAY TUBES
VALIDATION
 U PROVING
VALVES
 NT ARTIFICIAL HEART VALVES
 NT CONTROL VALVES
 NT HEART VALVES
 Water system microbial check valve development [NASA-CR-151843] p0032 N79-11733
 Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521] p0081 N79-14780
VANADIUM
 Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4] p0197 N79-25706
VANS
 U TRUCKS
VAPORS
 NT WATER VAPOR
 A general model for the transfer of vapour through clothed skin from liquid on and in clothing [AD-A071577] p0319 N79-33853
VARIANCE
 The human as a detector of changes in variance and bandwidth p0117 N79-17496
VARIANCE (STATISTICS)
 NT ANALYSIS OF VARIANCE
 NT MULTIVARIATE STATISTICAL ANALYSIS
 NT REGRESSION ANALYSIS
VASCULAR SYSTEM
 NT AORTA
 NT ARTERIES
 NT BLOOD VESSELS
 NT CAPILLARIES (ANATOMY)
 NT VEINS
 Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia p0277 A79-50905

SUBJECT INDEX**VESTIBULAR NYSTAGMUS**

- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
- Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits p0108 N79-16523
- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia p0194 N79-23644
- VASOCONSTRICTION**
Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
- Application of numerical methods to physiological flows --- Navier-Stokes equation, prosthetic heart valves and vasoconstriction p0146 N79-18945
- VASOCONSTRICTOR DRUGS**
NT SEROTONIN
- VASOMOTOR NERVOUS SYSTEM**
U NERVOUS SYSTEM
- VECTOR SPACES**
NT MATRICES (MATHEMATICS)
- VECTORCARDIOGRAPHY**
Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits p0098 A79-21246
- The application of vectorcardiography to aerospace medicine p0256 A79-46602
- VEGETABLES**
Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
- A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4] p0059 N79-13719
- A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720
- VEGETATION GROWTH**
NT CROP GROWTH
Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- Algal growth under multiple nutrient limiting conditions p0013 N79-10692
- VEINS**
Doppler detection of thresholds for decompression-induced venous gas emboli in the awake rat p0202 A79-37707
- Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- VELOCITY**
NT AIRSPEED
NT ANGULAR VELOCITY
NT FLOW VELOCITY
- VELOCITY DISTRIBUTION**
Estimation of nerve-bundle conduction p0154 N79-19672
- VELOCITY ERRORS**
A numerical method of film analysis with differentiation --- curve fitting with harmonic analysis p0061 A79-17585
- VELOCITY FIELDS**
U VELOCITY DISTRIBUTION
- VELOCITY MEASUREMENT**
Velocity precision in smooth pursuit eye movements p0129 A79-25399
- Techniques of measurement p0247 N79-27850
- Ultrasonic doppler directional blood flow velocity meter [RAE-LIB-TRANS-1918] p0279 N79-30920
- VELOCITY PROFILES**
U VELOCITY DISTRIBUTION
- VENTILATION**
Exercise ventilation correlates positively with ventilatory chemoresponsiveness p0066 A79-18954
- VERBAL COMMUNICATION**
Elicited acoustic responses to meaningful and meaningless verbal stimuli p0276 A79-50654
- Communication problems of international crews [IAF PAPER 79-A-23] p0303 A79-53425
- Human performance in concurrent verbal and tracking tasks: A review of the literature [AD-A060493] p0085 N79-15585
- VERIFICATION (PROVING)**
U PROVING
- VERTEBRAE**
Vertebral fractures in Gnat ejections p0201 A79-37134
- Dynamic response of vertebral elements related to USAF injury [AD-A059489] p0071 N79-14713
- A failure criterion for human, vertebral, cancellous bone p0285 N79-31912
- Analytical modelling of load-deflection behavior of intervertebral discs subjected to axial compression [AD-A071019] p0316 N79-33830
- VERTEBRAL COLUMN**
Functional anatomy of vertebral column with reference to load bearing areas p0272 A79-49732
- Biodynamics of aviation stresses on the vertebral column p0272 A79-49733
- Vertebral pains in helicopter pilots --- symptomatology and radiology p0153 N79-19656
- VERTEBRATES**
NT CHICKENS
NT CHIMPANZEES
NT DOGS
NT FISHES
NT FROGS
NT GOATS
NT HUMAN BEINGS
NT MAMMALS
NT MICE
NT MONKEYS
NT PRIMATES
NT RABBITS
NT RATS
NT WHALES
- VERTICAL MOTION**
Effects of stimulus onset and image motion on contrast sensitivity p0231 A79-42231
- Human discomfort response to noise combined with vertical vibration [NASA-TP-1374] p0190 N79-22761
- VERTICAL PERCEPTION**
Geotropism of hornet comb construction under persistent acceleration p0006 A79-12514
- The relationship between the apparent vertical and the vertical horopter --- visual perception of luminous line p0225 A79-40186
- Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
- Vertical orientation of man during 5-day antiorthostatic hypokinesia (-4, -8 and -12 deg head down position) p0313 N79-33810
- VERTICAL TAKEOFF AIRCRAFT**
Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator p0088 N79-15605
- VERTIGO**
Psychosocial aspects of syncope and vertigo in aircrew p0027 N79-11701
- VESTIBULAR NYSTAGMUS**
Visual-vestibular interactions. I - Influence of peripheral vision on suppression of the vestibulo-ocular reflex and visual acuity p0135 A79-27552
- Role of the visual system in the compensation of vestibular dysfunction p0162 A79-29971

VESTIBULAR TESTS

- Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability p0188 A79-35122
Characteristics of vestibular nystagmus in rats p0016 N79-10714
Analysis of inert gas exchange in the middle ear p0017 N79-10723
Modeling of visual-vestibular interaction and the fast components of nystagmus . p0050 N79-12692
Effect of restricted activity on vestibular function p0312 N79-33802

VESTIBULAR TESTS

- The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574
Motion sickness susceptibility - A retrospective comparison of laboratory tests p0010 A79-12861
Space Sled - A multipurpose apparatus for vestibular research aboard Spacelab [DGLR PAPER 78-132] p0042 A79-14083
Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission [DGLR PAPER 78-134] p0042 A79-14084
Hemodynamic indices under orthostatic and vestibular effects p0098 A79-20692
Effects of vestibular stimuli on the electrical activity of muscles p0187 A79-35121
Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
A model for vestibular function in altered gravitational states p0229 A79-41710
Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80] p0301 A79-53288
A method of evaluating the pupillary reaction to vestibular stimuli p0016 N79-10717
Vestibular Function Research (VFR) experiment. Phase B: Design definition study [NASA-CR-152207] p0024 N79-11683
Role of vestibular system in behavior of animals submitted to prolonged slow rotation p0074 N79-14734

VESTIBULES

- Sensory illusions of vestibular origin p0255 A79-46596
The vestibule and flying --- pilot disorientation p0255 A79-46598
Ultrastructural development of the vestibular system under conditions of simulated weightlessness p0298 A79-52284
Ultrastructural development of the vestibular system of frog larvae in 0g simulation [IAF PAPER 79-78] p0301 A79-53287
Neurophysiological bases of vestibular conditioning p0013 N79-10699
Vestibular influences on other sensory and motor processes --- human performance in flight simulation studies p0094 N79-15893

VIBRATION**NT FLUTTER**

- Evaluation of the amount of exposure to vibrations transmitted to the whole body case of vibrations due to a loader mounted on caterpillar tracks, a fork-lift truck and a hydraulic excavator [RAE-LIB-TRANS-1930] p0080 N79-14773
The influence of mechanical vibration and noise on the peripheral blood circulation at skin level [RAE-LIB-TRANS-1980] p0084 N79-15578
Human exposure to mechanical vibration at lying posture in the ambulance helicopter UR-1D p0149 N79-19617
Discomfort criteria for single-axis vibrations [NASA-TP-1422] p0196 N79-23662
The effects of whole-body vibration on health [AD-A068478] p0284 N79-31900

SUBJECT INDEX

- Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection --- conferences, human tolerance of acceleration, vibration, and shock [AGARD-CP-253] p0284 N79-31901
VIBRATION EFFECTS
Effects of vibration on humans - Performance decrements and limits p0035 A79-13185
Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
A study of the available evidence on duration effects on comfort and task proficiency under vibration p0254 A79-46399
The influence of low frequency vibration on pilot performance /as measured in a fixed base simulator/ p0299 A79-52326
Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance p0299 A79-52327
The influence of mechanical vibration and noise on the peripheral blood circulation at skin level [RAE-LIB-TRANS-1980] p0084 N79-15578
Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations [BMVG-FBWT-78-11] p0146 N79-18593
A model for predicting human discomfort response to combined noise and vertical vibration p0156 N79-19685
Human discomfort response to noise combined with vertical vibration [NASA-TP-1374] p0190 N79-22761
Effects of vibration on the human organism p0249 N79-27862
The effects of whole-body vibration on health [AD-A068478] p0284 N79-31900
The use of spinal analogue to compare human tolerance of repeated shocks with tolerance of vibration, part 1 p0288 N79-31926
Progress in measuring and modeling the effects of low frequency vibration on performance p0288 N79-31930
Significance of the vibration component to the deleterious effect of impact accelerations p0312 N79-33801
- VIBRATION MEASUREMENT**
Progress in measuring and modeling the effects of low frequency vibration on performance p0288 N79-31930
- VIBRATION PERCEPTION**
Intensity judgements of non-sinusoidal vibrations - Support for the ISO weighting method p0010 A79-12868
Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
Sensorial aspects of helicopter operations p0152 N79-19644
- VIBRATION SIMULATORS**
Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
The influence of low frequency vibration on pilot performance /as measured in a fixed base simulator/ p0299 A79-52326
Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance p0299 A79-52327
- VIBRATION TESTING MACHINES**
U VIBRATION SIMULATORS
- VIBRATION TESTS**
Vibration, performance, and personality --- vibration effects on human performance and psychological factors p0040 A79-13224
The influence of mechanical vibration and noise on the peripheral blood circulation at skin level [RAE-LIB-TRANS-1980] p0084 N79-15578
VIBRATIONAL FREQUENCIES
U VIBRATIONAL SPECTRA

SUBJECT INDEX**VISUAL DISCRIMINATION****VIBRATIONAL SPECTRA**

Intensity judgements of non-sinusoidal vibrations
 - Support for the ISO weighting method
 p0010 A79-12868

VIBRATIONAL STRESS

Cardiac responses of dogs to nonsynchronous and
 heart synchronous whole-body vibration
 p0162 A79-29728

Psychophysical assessment of angular vibration -
 Comparison of vertical and roll vibrations
 p0234 A79-43206

Effects of vibration and noise on some indices of
 efficiency of MI-4 helicopter crews
 p0015 N79-10711

VIBROCARDIOGRAPHY**U PHONOCARDIOGRAPHY****VIDEO DATA**

The development of a digital video subtraction
 system for intravenous angiography
 p0294 A79-51033

Display aids for remote control of untethered
 undersea vehicles
 p0090 N79-15613

VIDEO EQUIPMENT

Saccadic eye movements and visual stability
 p0035 A79-13075

VIKING LANDER SPACECRAFT

Biological implications of the Viking mission to
 Mars
 p0045 A79-14595

VIKING MARS PROGRAM

The Viking biological investigations - Review and
 status
 p0100 A79-22083

Some comments on interpretations of Viking
 biological experiments
 p0255 A79-46465

VIKING SPACECRAFT

NT VIKING LANDER SPACECRAFT
 Thermal resistance of naturally occurring airborne
 bacterial spores --- Viking spacecraft dry heat
 decontamination simulation
 p0131 A79-26147

VIKING 1 SPACECRAFT

NT VIKING LANDER SPACECRAFT

VIKING 2 SPACECRAFT

NT VIKING LANDER SPACECRAFT

VIOLENCE

NT ATTACKING (ASSAULTING)

VIRUSES

NT BACTERIOPHAGES
 Water system virus detection
 [NASA-CASE-MSC-16098-1] p0013 N79-10693

Wavelength dependence of ultraviolet-enhanced
 reactivation and induction of mammalian viruses
 [HEW-PUB-FDA-78-8059] p0084 N79-15575

Mechanism of plant virus inactivation in soil
 injected with municipal wastewater and treatment
 plant sludges
 [PB-287012/9] p0107 N79-16513

The effect of infection with herpes simplex
 viruses types 1 and 2 on cell DNA synthesis and
 thymidine kinase activities in cultured human
 cells
 p0141 N79-18558

Isolation of virus-augmented tumor antigens
 p0142 N79-18564

VISCERA

NT ADRENAL GLAND
 NT BLADDER
 NT INTESTINES

NT KIDNEYS
 NT LIVER
 NT LUNGS

NT ORGANS
 NT PARATHYROID GLAND

NT PINEAL GLAND
 NT PITUITARY GLAND

NT PROSTATE GLAND
 NT STOMACH

NT TESTES
 NT THYMUS GLAND

NT THYROID GLAND
 VISCOSITY

Aggregation of red cells and blood viscosity as
 models of materials experimentation in the space
 environment
 [AIAA PAPER 79-0310] p0069 A79-19664

VISIBILITY

NT LOW VISIBILITY
 Driver steering dynamics measured in car simulator
 under a range of visibility and roadmaking
 conditions
 p0117 N79-17493

Visual requirements for the helicopter pilot
 p0151 N79-19636

Observation of night shipboard helicopter
 operations from a 210 foot US Coast Guard cutter
 p0151 N79-19637

VISIBLE RADIATION**U LIGHT (VISIBLE RADIATION)****VISIBLE SPECTRUM****U LIGHT (VISIBLE RADIATION)****VISION****NT BINOCULAR VISION****NT COLOR VISION****NT MONOCULAR VISION****NT NIGHT VISION****NT PERIPHERAL VISION****NT STEREOSCOPIC VISION**

Contributions of the retina and of the eye optical
 system to the modulation lowering of the aerial
 image
 p0100 A79-22771

Survey on eye comfort in aircraft. I - Flight
 attendants
 p0165 A79-30665

Robotic vision --- process control applications
 p0187 A79-34984

Dynamical characteristics of visual functions
 p0276 A79-50656

Motion and vision. I - Stabilized images of
 stationary gratings
 p0278 A79-50986

The visual cortex of normal and deprived monkeys
 p0296 A79-51174

VISUAL ACCOMMODATION

Cerebral hemodynamics and visual analyzer function
 following exposure to bright light
 p0109 N79-16525

VISUAL ACUITY**NT HYPEROPIA**

Saccadic eye movements and visual stability
 p0035 A79-13075

Visual acuity of the aging hyperopic eye in the
 intermediate range
 p0037 A79-13198

Peripheral acuity and photointerpretation
 performance
 p0068 A79-18996

Visual acuity with regard to simultaneous colored
 contrast on a television screen - Results
 p0103 A79-23952

Visual-vestibular interactions. I - Influence of
 peripheral vision on suppression of the
 vestibulo-ocular reflex and visual acuity
 p0135 A79-27552

Recognition by the human eye of colored symbols on
 different backgrounds
 p0136 A79-27673

Chromatic border distinctness - Not an index of
 hue or saturation differences
 p0139 A79-28332

Dynamics of an image viewed through a rotating
 mirror
 p0221 A79-36365

Objective determination of human visual acuity
 from the visual evoked potential
 p0228 A79-41423

The retinal resolving power measured by laser
 interference fringes
 p0304 A79-54091

Providing an eye separator on a color cathode tube
 --- enhancing visual acuity
 p0152 N79-19639

Visual and optical assessment of gas protective
 face masks
 p0152 N79-19642

VISUAL DISCRIMINATION
 Discrimination of density and clustering on four
 versions of a stochastic display --- human
 performance of pattern recognition
 p0036 A79-13192

Contrast effects on smooth-pursuit eye movement
 velocity
 p0104 A79-24068

VISUAL DISPLAYS

Recognition by the human eye of colored symbols on different backgrounds p0136 A79-27673
Chromatic border distinctness - Not an index of hue or saturation differences p0139 A79-28332
Discrimination, temperature, and time of day --- human performance variances p0161 A79-29718
The visual perception of motion in depth p0210 A79-39087
The relative effects of multiple factors on target acquisition --- by combat pilots p0267 A79-47765
Mutual repulsion between moving visual targets p0275 A79-50473
Upper-velocity threshold for detection of movement p0299 A79-52541
Contrast sensitivity of the human eye to various display phosphor types [AD-A058383] p0056 N79-13695
Translations on USSR science and technology: Biomedical and behavioral sciences, no. 51 [JPRS-72588] p0076 N79-14745
VISUAL INFORMATION PROCESSING p0076 N79-14747
The relationship between Air Combat Maneuvering Range (ACMR) output measures and initial visual acquisition performance [AD-A062134] p0173 N79-20744
Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation p0192 N79-23632
Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844
The role of cognitive switching in head-up displays --- to determine pilot ability to accurately extract information from either of two sources [NASA-CR-3137] p0318 N79-33851

VISUAL DISPLAYS
DISPLAY DEVICES
VISUAL FIELDS

Apparent saturation of blue-sensitive cones occurs at a color-opponent stage p0002 A79-10474
Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix p0063 A79-18214
Eye movements and symmetry - Foundations for a quantitative analysis of eye movements as they depend on the structure of the perception field --- German thesis p0098 A79-20756
The common occurrence of errors of perceived distance p0100 A79-22775
The equivalent background and retinal eccentricity p0104 A79-24066
Useful visual field size for pattern perception p0129 A79-25098
Stereo 3-D perception for a robot p0019 N79-10740

VISUAL FLIGHT

Flight management research utilizing an oculometer --- pilot scanning behavior during simulated approach and landing p0001 A79-10389
Choice and techniques of analysis of indices for the perception of visual information. III --- by pilots p0103 A79-23954
Visual workload of the copilot/navigator during terrain flight p0209 A79-38364
Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640

VISUAL OBSERVATION

Focus of the effect of specific practice in continuous visual search p0129 A79-25099
A two-stage model of visual search p0186 A79-33948

SUBJECT INDEX

Advanced transport operation effects on pilot scan patterns p0295 A79-51098
Two dimensional eye tracking: Sampling rate of forcing function p0090 N79-15617
Head tracking at large angles from the straight ahead position p0090 N79-15618
Airline pilot scan patterns during simulated ILS approaches [NASA-TP-1250] p0155 N79-19682
Visual search performance during simulated radar observation with and without a sweepline [AD-A068020] p0281 N79-30938

VISUAL PERCEPTION

NT CRITICAL FLICKER FUSION
NT SPACE PERCEPTION
NT VISUAL DISCRIMINATION

Apparent saturation of blue-sensitive cones occurs at a color-opponent stage p0002 A79-10474
Perceptual delay - A consequence of metacontrast and apparent motion p0035 A79-13183
Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems p0043 A79-14371
Selection and techniques for analysis of indices of visual data reception. II --- aircraft pilot eye movements p0047 A79-15494
Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218
Human engineering study of information processing applicable to helmet-mounted displays p0068 A79-18994
Evoked potential correlates of display image quality p0068 A79-18998
Light flashes in space --- cosmic ray interaction with astronaut visual system p0100 A79-22261
Choice and techniques of analysis of indices for the perception of visual information. III --- by pilots p0103 A79-23954
Factors controlling the competing sensations produced by a bistable stroboscopic motion display p0104 A79-24067
The perceived direction of the binocular image p0104 A79-24069
Useful visual field size for pattern perception p0129 A79-25098
Hyper-resolution in human perception of movement in visual displays p0132 A79-26240
Elements of the theory of biological analyzers --- Russian book p0132 A79-26450
Aeromedical implications of the X-Chrom lens for improving color vision deficiencies p0135 A79-27556
Object, illusion and frame of reference as design criteria for computer-generated displays p0137 A79-28157
Omnidirectional increase in threshold for image shifts during saccadic eye movements p0139 A79-28198
Piecewise Fourier analysis of images and the role of occipital, temporal and parietal cortex in visual perception p0160 A79-29248
Experimental investigation of the visual system using one-dimensional Walsh gratings p0160 A79-29249
Training of visual recognition p0160 A79-29250
Role of the visual system in the compensation of vestibular dysfunction p0162 A79-29971
Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II p0166 A79-31178
A bioengineering simulator of the human visual apparatus

- p0166 A79-31180
Visual contrast sensitivity functions obtained with colored and achromatic gratings
 p0181 A79-32628
- Perception of continuity in stroboscopic motion - A temporal frequency analysis**
 p0186 A79-34375
- The interpretation of visual motion -- Book**
 p0186 A79-34424
- The development of integrated multidimensional displays**
 p0187 A79-34990
- Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range**
 p0188 A79-35363
- Correlation of binocular vision test results with synaptophore evaluation**
 p0201 A79-37136
- Predicting aircraft detectability**
 p0208 A79-38358
- Oculomotor factors in visual perceptual response efficiency**
 p0209 A79-38361
- The visual perception of motion in depth**
 p0210 A79-39087
- The role of perceived motion in smooth pursuit eye movements**
 p0225 A79-40184
- The relationship between the apparent vertical and the vertical horopter -- visual perception of luminous line**
 p0225 A79-40186
- Axiomatic summary and deductions from Hering's principles of visual direction**
 p0228 A79-41421
- The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line**
 p0228 A79-41422
- Objective determination of human visual acuity from the visual evoked potential**
 p0228 A79-41423
- Effects of stimulus onset and image motion on contrast sensitivity**
 p0231 A79-42231
- Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons**
 p0232 A79-42234
- Form information is necessary for the perception of motion**
 p0232 A79-42235
- On the latency of human visually evoked response to sinusoidal gratings**
 p0232 A79-42236
- Changes in optokinetic, postoptokinetic, and reverse postoptokinetic nystagmus after bilateral labyrinthectomy**
 p0255 A79-46499
- Sensory illusions - The ophthalmologist's point of view**
 p0255 A79-46595
- Retinal site of transient tritanopia**
 p0256 A79-46623
- Eye torsion and visual tilt are mediated by different binocular processes**
 p0256 A79-46651
- Eye movements and visual perception -- Russian book**
 p0267 A79-47429
- Stereopsis in monkeys using random dot stereograms - The effect of viewing duration**
 p0271 A79-49481
- Contrast sensation - A linear function of stimulus contrast**
 p0271 A79-49483
- Forms of oculomotor activity under conditions of positive visual feedback**
 p0276 A79-50657
- Latency of peripheral saccades**
 p0278 A79-50987
- Reciprocal interaction between the photopic and scotopic systems of the visual analyzer in man**
 p0296 A79-51327
- Effect of adaptation level on certain visual functions in man**
 p0296 A79-51328
- Orientation relative to the retina determines perceptual organization**
 p0299 A79-52539
- Target redundancy in visual search - Do repetitions of the target within the display impair processing**
 p0299 A79-52540
- Visual motion perception by intelligent systems**
 p0300 A79-52691
- A cinematographic technique for investigating some aspects of visual recognition**
 p0300 A79-53067
- Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye**
 p0301 A79-53163
- Stereo 3-D perception for a robot**
 p0019 N79-10740
- A behavioral model of target acquisition in realistic terrain**
 [AD-A056760]
 p0019 N79-10742
- Visual performance assessment through clear and sunscreen-treated windows**
 [AD-A059750]
 p0080 N79-14775
- Experiments in texture perception**
 [AD-A059630]
 p0086 N79-15587
- The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems -- sensitivity of operators versus monitors to failures**
 p0087 N79-15596
- Vision**
 p0095 N79-15894
- General methods to enable robots with vision to acquire, orient, and transport workpieces**
 [PB-287199/4]
 p0113 N79-16556
- Image processing program completion report**
 [AD-A061597]
 p0123 N79-17549
- Visual effects of helicopter maneuvre on weapon aiming performance**
 p0150 N79-19626
- Visual requirements for the helicopter pilot**
 p0151 N79-19636
- Observation of night shipboard helicopter operations from a 210 foot US Coast Guard cutter**
 p0151 N79-19637
- Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator**
 p0151 N79-19638
- Visual performance/workload of helicopter pilots during instrument flight**
 p0152 N79-19640
- Sensorial aspects of helicopter operations**
 p0152 N79-19644
- Aviator visual performance: A comparative study of a helicopter simulator and the OH-1 helicopter**
 p0153 N79-19652
- Bandpass channels, zero-crossings, and early visual information processing**
 [AD-A062338]
 p0170 N79-20724
- Restoration of color perception after deadapting flashes**
 p0193 N79-23640
- Effect of optical magnification on the perception of displayed orientation**
 [AD-A065949]
 p0196 N79-23660
- The effects of pilot age, lighting, and head-down time on visual accomodation**
 [AD-A064912]
 N79-25747
- The limited range of the human eye for optical aircraft acquisition**
 p0291 N79-31948
- A theoretical and experimental analysis of the outside world perception process**
 [NLR-MP-78020-U]
 p0309 N79-32835
- Analysis of visual estimation of system state from arbitrary displays**
 p0317 N79-33843
- VISUAL PIGMENTS**
 Light flashes in space --- cosmic ray interaction with astronaut visual system
 p0100 A79-22261
- VISUAL SIGNALS**
 Applications of two-parameter decision theories in psychology
 [AD-A059010]
 p0052 N79-12705
- Use of the tilt cue in a simulated heading tracking task**
 p0091 N79-15621
- Manual control of yaw motion with combined visual and vestibular cues**
 p0119 N79-17513

VISUAL STIMULI

- Human factors analysis of visual distress
signaling devices --- used by boaters
[AD-A064174] p0190 N79-22765
- VISUAL STIMULI**
- The responses of frogs to vestibular and visual
stimulation in weightlessness p0006 A79-12513
- Perceptual delay - A consequence of metacontrast
and apparent motion p0035 A79-13183
- Eye movements and symmetry - Foundations for a
quantitative analysis of eye movements as they
depend on the structure of the perception field
--- German thesis p0098 A79-20756
- Locus of the effect of specific practice in
continuous visual search p0129 A79-25099
- Optokinetic motion sickness - Attenuation of
visually-induced apparent self-rotation by
passive head movements p0135 A79-27558
- A fast-reacting and versatile optokinetic stimulus
pattern by computer graphics with application
examples p0160 A79-28993
- A further investigation of visual dominance
p0186 A79-33949
- Visual search for complex targets p0208 A79-38357
- Detection of coloured stimuli by independent
linear systems p0231 A79-42229
- Effects of stimulus onset and image motion on
contrast sensitivity p0231 A79-42231
- Visual angle constancy for the subjective
checkerboard pattern, as an indication of
cortical origination of size constancy
p0231 A79-42232
- Spatial frequency masking in human vision -
Binocular interactions p0232 A79-42284
- Spatial summation in human vision - Simple
reaction time measurements p0265 A79-47115
- Using color substitution pupil response to expose
chromatic mechanisms p0265 A79-47116
- Direction-selective adaptation with very slow motion
p0265 A79-47118
- An analysis of the saccadic system by means of
double step stimuli p0270 A79-49480
- The peripheral critical flicker frequency
p0271 A79-49482
- Contrast sensation - A linear function of stimulus
contrast p0271 A79-49483
- Orientation relative to the retina determines
perceptual organization p0299 A79-52539
- Optokinetic reactions in man elicited by localized
retinal motion stimuli p0304 A79-54251
- A comparison of oculomotor and motion parallax
cues of egocentric distance p0305 A79-54253
- Eye torsion in response to a tilted visual stimulus
p0305 A79-54254
- Cerebral hemodynamics and visual analyzer function
following exposure to bright light p0109 N79-16525
- Training effect of recognition of different
alphabets of visual stimuli p0175 N79-21747
- Contrast sensitivity of the human visual system at
one luminance level while adapted to a stimulus
at another luminance level
[AD-A064370] p0190 N79-22759
- Methods for localization of electrical sources in
the human brain and applications to the visual
system p0314 N79-33815
- VISUAL TASKS**
- Imagery interpreter performance in the comparison
of subjective estimates of photographic image
quality p0036 A79-13191

SUBJECT INDEX

- Lateral orientation and cerebral activation -
Considerations for information display
p0037 A79-13194
- Visual workload of the copilot/navigator during
terrain flight p0038 A79-13206
- Observer performance using a video display --- in
simulated air to ground target acquisition tasks
p0039 A79-13217
- AWAVS, a research facility for defining flight
trainer visual system requirements
p0062 A79-18207
- Effects of information processing requirements on
reaction time of the eye p0064 A79-18219
- Secondary visual workload capability with primary
visual and kinesthetic-tactile displays
p0064 A79-18220
- Peripheral acuity and photointerpretation
performance p0068 A79-18996
- Line criteria in target acquisition with television
--- visibility of target image on TV screen
p0068 A79-18997
- Speed and load stress as determinants of
performance in a time sharing task
p0068 A79-18999
- Visual target acquisition and ocular scanning
performance p0069 A79-19000
- Visual cues in manual tracking of simulated targets
p0103 A79-23792
- Comparative evaluation of the effectiveness of
visual and aural tracking of a sinusoidal signal
p0159 A79-28736
- The effects of carbon monoxide on dual-task
performance p0161 A79-29716
- A rationale for human operator pulsive control
behavior p0186 A79-34520
- Visual search for complex targets p0208 A79-38357
- Regression models of search time for color-coded
information displays p0209 A79-38359
- Information transmission during eye movements
p0209 A79-38360
- Oculomotor factors in visual perceptual response
efficiency p0209 A79-38361
- Dynamics of the eye and head during movement
between displays - A qualitative and
quantitative guide for designers p0209 A79-38362
- Methodological considerations of visual workloads
of helicopter pilots p0209 A79-38363
- Visual workload of the copilot/navigator during
terrain flight p0209 A79-38364
- Analysis of electroencephalogram during
psychomotor performance p0209 A79-38820
- The effect of increased monitoring load on
vigilance performance using a simulated radar
display p0236 A79-43674
- Tracking-task performance during heat stress
simulating cockpit conditions in
high-performance aircraft p0236 A79-43675
- Auditory and visual sustained attention during
ozone exposure p0273 A79-49988
- Effect on performance of cycling deep body
temperature between 37.0 and 37.6 C
p0274 A79-49993
- A cinematographic technique for investigating some
aspects of visual recognition p0300 A79-53067
- Effects of uncertainty on manual tracking
performance --- visual tasks p0086 N79-15592
- A model for dynamic allocation of human attention
among multiple tasks p0092 N79-15627
- VISUAL TRACKING**
- U OPTICAL TRACKING

SUBJECT INDEX

WATER QUALITY

VISUALIZATION OF FLOW
 U FLOW VISUALIZATION
VITAMIN C
 U ASCORBIC ACID
VITAMIN E
 U TOCOPHEROL
VITAMINS
 NT ASCORBIC ACID
 NT TOCOPHEROL
 Orthomolecular enhancement of human development p0095 N79-15895
 Effect of rocking on absorption of some group B
 vitamins and ascorbic acid in the small
 intestine of dogs p0312 N79-33803

VOICE COMMUNICATION
 Voice communication in artificial atmospheres ---
 Russian book p0048 A79-16500
 Effects of phase manipulation on speech
 intelligibility through communication headsets
 --- light aircraft radio communication p0164 A79-30654
 Pilot preflight briefing utilizing an interactive
 computer generated Voice Response System p0167 A79-31887
 Speech quality measurement p0033 N79-11745
 Human factors. Speech communication [PS-5/78] p0113 N79-16555
 Speech as a pilot input medium p0119 N79-17519

VOLTAGE
 U ELECTRIC POTENTIAL
VTOL AIRCRAFT
 U VERTICAL TAKEOFF AIRCRAFT

W

WAKEFULNESS
 Effects of prolonged unidirectional shift of
 sleeping-waking cycle on physiological
 functions, mental productivity and sleep of man p0109 N79-16526

WALKING
 Mechanism for the regulation of human posture
 during movements of the foot p0276 A79-50651

WALKING MACHINES
 Adaptive locomotion of a multilegged robot over
 rough terrain p0163 A79-30217
 Selecting the program of motions for a biped
 walking machine p0166 A79-31490
 Some properties of conservative systems ---
 walking robot model p0221 A79-35942
 Stabilization of the horizontal motion of a
 bipedal walking robot p0251 A79-44081
 Stabilization of a biped walking machine with
 incomplete information on its phase coordinates p0273 A79-49879

WARFARE
 NT COMBAT
 Medical qualification procedures for
 hazardous-duty aeromedical research p0026 N79-11695

WARNING
 U HEATING
WARNING DEVICES
 U WARNING SYSTEMS
WARNING SIGNALS
 U WARNING SYSTEMS
WARNING SYSTEMS
 Arousal from sleep by emergency alarms:
 Implications from the scientific literature
 [PB-284044/5] p0051 N79-12700

WASTE DISPOSAL
 Waste treatment options for use in closed systems
 --- in space colonies p0187 A79-34843
 Food and waste management biotechnology for the
 space shuttle [IAF PAPER 79-93] p0302 A79-53294
 Mechanism of plant virus inactivation in soil
 injected with municipal wastewater and treatment
 plant sludges

[PB-287012/9]	p0107 N79-16513
Automated biowaste sampling system feces monitoring system [NASA-CR-160301]	p0281 N79-30937
WASTE TREATMENT	
NT SEWAGE TREATMENT	
WASTE UTILIZATION	
Utilization of the wastes of vital activity [NASA-TM-75410]	p0177 N79-21768
WASTE WATER	
Water system virus detection [NASA-CASE-MSC-16098-1]	p0013 N79-10693
Evaluation of toxic effects of organic contaminants in recycled water [PB-291379/6]	p0190 N79-22760
WASTES	
NT FECES	
NT HUMAN WASTES	
NT METABOLIC WASTES	
NT URINE	
NT WASTE WATER	
WATER	
NT COASTAL WATER	
NT COLD WATER	
NT POTABLE WATER	
NT SEA WATER	
NT SPRINGS (WATER)	
NT WASTE WATER	
Effect of water and electrolyte replacement during exercise in the heat on biochemical indices of stress and performance	p0127 A79-24629
Raman and infrared investigations of the nature of intracellular water [AD-A061254]	p0120 N79-17522
WATER BALANCE	
Control by episome on salt-resistance in bacteria	p0205 A79-37969
Fluid and Electrolyte Balance model (PEB) [NASA-CR-160206]	p0211 N79-24633
Fluid-electrolyte metabolism in the crew of Salyut-4	p0311 N79-33792
WATER CONSUMPTION	
Relationship between thermogenic drinking and plasma renin activity in the rat	p0235 A79-83211
WATER CONTENT	
U MOISTURE CONTENT	
WATER COOLING	
U LIQUID COOLING	
WATER LOSS	
Modifications to the steady-state 41-node thermoregulatory model including validation of the respiratory and diffusional water loss equations [NASA-CR-160219]	p0219 N79-25738
WATER POLLUTION	
Algal growth under multiple nutrient limiting conditions	p0013 N79-10692
Distribution of phytoplankton in North Carolina lakes [PB-286387/6]	p0084 N79-15573
Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium. Volume 2: USSR Symposium [PB-287219/0]	p0112 N79-16546
Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5]	p0170 N79-20718
Methods for measuring the acute toxicity of effluents to aquatic organisms [PB-289605/8]	p0170 N79-20719
Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4]	p0197 N79-25706
Distribution of phytoplankton in Arkansas lakes [PB-292742/4]	p0240 N79-26768
WATER PURIFICATION	
U WATER TREATMENT	
WATER QUALITY	
Eutrophication. Volume 2: A bibliography with abstracts [NTIS/PS-78/0771/2]	p0013 N79-10695
Eutrophication. Volume 3: A bibliography with abstracts [NTIS/PS-78/0772/0]	p0013 N79-10696

- Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
- A system for sterilizing objects --- such as water systems on the space shuttle using ethylene oxide [NASA-CASE-KSC-11085-1] p0318 N79-33848
- WATER RECLAMATION**
- Water system virus detection [NASA-CASE-MSC-16098-1] p0013 N79-10693
- Four-man rated dual catalyst system for the recovery of water from urine [NASA-CR-152227] p0112 N79-16550
- Microflora of water reclaimed in sealed compartments p0193 N79-23638
- Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
- WATER RECOVERY**
- U WATER RECLAMATION**
- WATER TEMPERATURE**
- Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
- Minimum sea surface temperatures and associated survival times [AD-A070162] p0315 N79-33824
- WATER TREATMENT**
- A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19] p0007 A79-12568
- Water system virus detection [NASA-CASE-MSC-16098-1] p0013 N79-10693
- Water system microbial check valve development [NASA-CR-151843] p0032 N79-11733
- WATER VAPOR**
- Synthesis of organic compounds from carbon monoxide and water by UV photolysis p0099 A79-22077
- WATER VEHICLES**
- NT AIRCRAFT CARRIERS**
- NT BOATS**
- NT UNDERWATER VEHICLES**
- WAVE DIFFRACTION**
- Diffraction-based characterization of biological tissue with ultrasound --- acoustic scattering from liver tissue p0054 N79-13683
- WAVE OSCILLATORS**
- U OSCILLATORS**
- WAVE PROPAGATION**
- NT LIGHT SCATTERING**
- WAVE RADIATION**
- U ELECTROMAGNETIC RADIATION**
- WAVE SCATTERING**
- NT ACOUSTIC SCATTERING
- NT LIGHT SCATTERING
- NT RAYLEIGH SCATTERING
- NT X RAY SCATTERING
- WAVEFORMS**
- NT PULSE DURATION
- WAVELENGTHS**
- Wavelength dependence of ultraviolet-enhanced reactivation and induction of mammalian viruses [HEW-PUB-FDA-78-8059] p0084 N79-15575
- WEAK ENERGY INTERACTIONS**
- Quantitative aspects of the effect of weak interaction during chemical evolution p0204 A79-37959
- WEAPON SYSTEMS**
- Visual effects of helicopter maneuvre on weapon aiming performance p0150 N79-19626
- Human factors evaluations of today's helicopters as an aid to future systems design p0150 N79-19627
- WEAPONS**
- NT ARTILLERY**
- WEATHER**
- NT HOT WEATHER**
- WEBBS (MEMBRANES)**
- U MEMBRANES**
- WEIGHT (MASS)**
- NT BIOMASS
- NT BODY WEIGHT
- WEIGHT ANALYSIS**
- Weight control and restraint of laboratory rats p0133 A79-26584
- WEIGHT REDUCTION**
- Computer design synthesis of a below knee-Syme
- prostheses**
- p0251 A79-44300
- WEIGHTING FUNCTIONS**
- Intensity judgements of non-sinusoidal vibrations - Support for the ISO weighting method p0010 A79-12868
- WEIGHTLESSNESS**
- Prolonged weightlessness and calcium loss in man [IAF PAPER 78-48] p0002 A79-11219
- A review of the consequences of fluid and electrolyte shifts in weightlessness [IAF PAPER 78-50] p0002 A79-11220
- Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- Space medicine - A prognosis for future research [IAF PAPER 78-ST-17] p0003 A79-11364
- The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
- Aggregation of red cells and blood viscosity as models of materials experimentation in the space environment [AIAA PAPER 79-0310] p0069 A79-19664
- Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
- Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- Spaceflight and bone turnover - Correlation with a new rat model of weightlessness p0182 A79-33049
- Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713
- Man and machine design for space flight p0300 A79-52696
- A new application of LBNP to measure orthostatic tolerance before and after 0-G simulation /water immersion/ [IAF PAPER 79-87] p0302 A79-53290
- Equipment for surgical interventions and childbirth in weightlessness [IAF PAPER 79-97] p0302 A79-53296
- The biomedical implications of extended duration zero-g extravehicular activities [IAF PAPER 79-ST-06] p0303 A79-53447
- Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269
- Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- State of spermatogenesis in rats flown aboard Kosmos-690 biosatellite p0014 N79-10704
- Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue --- COSMOS 782 p0020 N79-11653
- Responses of crown gall tissue to the space environment: Tumor development and anatomy --- cosmos 782 p0020 N79-11654
- Responses of crown gall tissue to the space environment: Glutamine synthetase activity --- cosmos 782 p0020 N79-11655
- Responses to crown gall tissue to the space environment: Isozyme patterns --- cosmos 782 p0020 N79-11656
- The morphogenetic responses of cultured totipotent cells of carrot (*Daucus carota L.*) at zero gravity --- cosmos 782 p0021 N79-11657
- Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104 p0021 N79-11659
- Effects of weightlessness on the embryonic development and aging of *Drosophila* p0022 N79-11670
- Effects of weightlessness on the genetics and aging process of *drosophila melanogaster* p0023 N79-11673
- Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight

- p0023 N79-11674
Quantitative analysis of selected bone parameters
 p0023 N79-11676
- Anthropometric changes in weightlessness**
 p0032 N79-11735
- Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite**
 [NASA-TM-75582] p0071 N79-14711
- Changes in amount and composition of phospholipids in rat skeletal muscle microsomal fraction under the influence of a flight aboard the Kosmos-690 biosatellite**
 p0108 N79-16519
- Man-machine analysis of translation and work tasks of Skylab films**
 [NASA-CR-151879] p0146 N79-18592
- Problems of human adaption to spaceflight**
 p0157 N79-19985
- The adrenosympathetic system in the presence of traumatic shock during simulation of effects of weightlessness on the human body**
 p0192 N79-23633
- Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antiorthostatic hypokinesia**
 p0193 N79-23635
- Validation of a model for investigating red cell mass changes during weightlessness**
 [NASA-CR-160188] p0211 N79-24634
- Development of an hypothesis for simulating anti-orthostatic bed rest**
 [NASA-CR-160200] p0217 N79-25717
- Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness**
 p0244 N79-27825
- Studies of venous circulation in the crew of the Salyut-5 orbital station**
 p0310 N79-33791
- Effects on lipid metabolism in man of some factors that simulate space flight conditions**
 p0311 N79-33794
- WEIGHTLESSNESS SIMULATION**
- Distribution of pulmonary ventilation and perfusion during short periods of weightlessness**
 p0068 A79-18967
- A model for vestibular function in altered gravitational states**
 p0229 A79-41710
- Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness**
 p0229 A79-41712
- Comparison of physiological effects of head-down tilting and immersion on the human body**
 p0298 A79-52279
- Ultrastructural development of the vestibular system under conditions of simulated weightlessness**
 p0298 A79-52284
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt**
 [IAP PAPER 79-771] p0301 A79-53286
- Ultrastructural development of the vestibular system of frog larvae in 0g simulation**
 [IAP PAPER 79-78] p0301 A79-53287
- Cardiac arrhythmia following postimmersion +G sub z accelerations**
 p0015 N79-10710
- Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study**
 [NASA-SD-430] p0054 N79-13686
- Role of vestibular system in behavior of animals submitted to prolonged slow rotation**
 p0074 N79-14734
- Antiorthostatic hypokinesia as an approximate model of weightlessness**
 p0108 N79-16520
- Correction of transcapillary exchange in man under the influence of rotation on a centrifuge while immersed in water**
 p0110 N79-16533
- Effects of hypodynamic simulations on the skeletal system of monkeys**
 p0146 N79-19021
- WETNESS**
 U MOISTURE CONTENT
- WHALES**
 Radio tracking of a fin whale /Balaenoptera physalus/
 p0061 A79-18008
- WHIPLASH INJURIES**
 Head acceleration and psychomotor performance --- related to crash accident survival rates
 p0135 A79-27559
- WHIRL**
 U ROTATION
- WHIRLING**
 U ROTATION
- WHITE BLOOD CELLS**
 Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils
 p0074 N79-14732
- WIDEBAND**
 U BROADBAND
- WILDLIFE**
 NT CHIMPANZEES
- WILDLIFE RADIOLOCATION**
 Wildlife monitoring program plan
 [NASA-TM-78578] p0190 N79-23626
- WIND SHEAR**
 Evaluation of display and control concepts for a terminal configured vehicle in final approach in a windshear environment
 p0090 N79-15616
- WINDMILLING**
 U AUTOROTATION
- WINDOWS (APERTURES)**
 Visual performance assessment through clear and sunscreen-treated windows
 [AD-A059750] p0080 N79-14775
- WINDSCREENS**
 U WINDSHIELDS
- WINDSHIELDS**
 Windshield quality and pilot performance measurement utilizing computer-generated imagery
 p0137 A79-28165
- WINGS**
 NT FIXED WINGS
 NT ROTARY WINGS
- WOMEN**
 U FEMALES
- WORDS (LANGUAGE)**
 Attempt to describe a class of man-machine dialogue systems based on a natural language
 p0251 A79-44057
- WORK**
 NT PHYSICAL WORK
- WORK CAPACITY**
 Time estimation as a technique to measure workload --- of aircraft pilot in flight simulation
 p0062 A79-18203
- Characteristics of somatic and autonomic regulation during work of small muscle groups as a function of loading regime**
 p0276 A79-50653
- Human work measurement. A bibliography with abstracts**
 [NTIS/PS-78/1197/9] p0081 N79-14781
- Prediction of pilot reserve attention capacity during air-to-air target tracking**
 p0116 N79-17488
- WORK-REST CYCLE**
 Simulation study on time series of heart responses
 p0037 A79-13197
- Characteristics of somatic and autonomic regulation during work of small muscle groups as a function of loading regime**
 p0276 A79-50653
- Electrophysiological investigation of sleep during work-shift regime and production-induced emotional stress**
 p0276 A79-50655
- WORKLOADS (PSYCHOPHYSIOLOGY)**
 Visual workload of the copilot/navigator during terrain flight
 p0038 A79-13206
- The event related cortical potential as an index of task workload**
 p0038 A79-13208
- The multiloop concept of the pilot work load as a basis of future experiments and studies**
 [ONERA, TP NO. 1978-10] p0045 A79-14795
- WEST GERMANY**
 U GERMANY

Secondary visual workload capability with primary visual and kinesthetic-tactual displays p0064 A79-18220

The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156

Morbidity experience of air traffic control personnel - 1967-77 p0101 A79-23466

Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads p0160 A79-29270

Measurement and scaling of workload in complex performance p0164 A79-30659

A preliminary study of the air traffic controller's 'picture' p0221 A79-36227

Methodological considerations of visual workloads of helicopter pilots p0209 A79-38363

Visual workload of the copilot/navigator during terrain flight p0209 A79-38364

Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet fighter p0209 A79-38821

Pilot workload during final approach in congested airspace p0269 A79-48014

Electrophysiological investigation of sleep during work-shift regime and production-induced emotional stress p0276 A79-50655

Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88] p0302 A79-53291

Life stress, organizational stress, and job satisfaction [AD-A055153] p0057 N79-13706

A survey of existing computer programs for aircREW workload assessment [AD-A058518] p0059 N79-13718

Psychological experiment on components of the meaning of work p0071 N79-14709

A simulator study of the interaction of pilot workload with errors, vigilance, and decisions [NASA-TM-78482] p0079 N79-14769

Time estimation as a secondary task to measure workload: Summary of research p0093 N79-15634

Pilot workload qualification for avionics design p0114 N79-16564

The facilitating effects of uncertainty in long-term manual control p0115 N79-17485

The effects of participatory mode and task workload on the detection of dynamic system failures p0116 N79-17487

Reduced mental capacity and behavior of a rider of a bicycle simulator under alcohol stress or under dual task load p0116 N79-17489

An analysis of helicopter pilot control behaviour and workload during instrument flying tasks [NLR-MP-78003-U] p0124 N79-17553

The measurement and scaling of workload in complex performance [FAA-AM-78-34] p0125 N79-17558

An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612

TADRAP: A computer-aided technique for reducing aircREW task analysis data --- helicopter design considering human factors p0150 N79-19628

An analysis of helicopter pilot control behavior and workload during instrument flying tasks p0150 N79-19630

Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640

Sensorial aspects of helicopter operations p0152 N79-19644

Crew workload assessment. Development of a measure of operator workload [AD-A068616] p0261 N79-28884

A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel [AD-A067826] p0281 N79-30933

Performance and workload analysis of inflight helicopter missions [NLR-MP-77013-U] p0308 N79-32834

WORLD

U EARTH (PLANET)

WORMS

Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873] p0107 N79-16512

WOUND HEALING

Effect of fiber and dye degradation products /PDP/ on burn wound healing p0298 A79-52277

A porcine bioassay study of the physiological effects of fiber and dye degradation products (PDP) on burn wound healing [AD-A066990] N79-25748

WRIST

The proto-type wrist joint assembly TACPAW (Triple Axis Common Pivot Arm Wrist), phase 2 [NASA-CR-150885] p0093 N79-15635

X

X BAND

U SUPERHIGH FREQUENCIES

X RAY ABSORPTION

Studying the state of cellular metal ions by the extended X-ray absorption fine structure [AD-A069799] p0279 N79-30914

X RAY ANALYSIS

The development of a digital video subtraction system for intravenous angiography p0294 A79-51033

Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269

Computed axial tomography (CAT) [ISS-R-78/4] p0262 N79-29791

X RAY IRRADIATION

Mechanism of the formation of phosphene by X-rays p0006 A79-12516

X RAY SCATTERING

X-ray backscatter imaging p0176 N79-21754

Y

YAW

Manual control of yaw motion with combined visual and vestibular cues p0119 N79-17513

YAWMETERS

U YAW

YUH-1 HELICOPTER

U UH-1 HELICOPTER

YOUNG MODULUS

U MODULUS OF ELASTICITY

YUH-1 HELICOPTER

U UH-1 HELICOPTER

Z

ZERO CROSSINGS

U ROOTS OF EQUATIONS

ZERO GRAVITY

U WEIGHTLESSNESS

ZINC

The distribution of cadmium and other metals in human tissues [PB-285200/2] p0057 N79-13703

Zinc [PB-285130/1] p0057 N79-13704

ZINC CHLORIDES

A literature review-problem definition studies on selected toxic chemicals. Volume 5: Occupational health and safety and environmental aspects of zinc chloride [AD-A056020] p0025 N79-11687

ZINC COMPOUNDS

NT ZINC CHLORIDES

ZIRCONIUM

Effects of heavy metals especially selenium,
vanadium and zirconium on movement, growth and
survival of certain animal aquatic life
[PB-292563/4] p0197 N79-25706

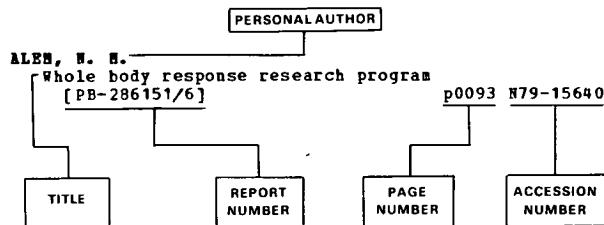
PERSONAL AUTHOR INDEX

AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography

JANUARY 1980

1979 Cumulative Index

Typical Personal Author Index Listing



Listings in this index are arranged alphabetically by personal author. The title of the document provides the user with a brief description of the subject matter. The report number helps to indicate the type of document listed (e.g., NASA report, translation, NASA contractor report). The page and accession numbers are located beneath and to the right of the title, e.g., p0093 N79-15640. Under any one author's name the accession numbers are arranged in sequence with the IAA accession numbers appearing first.

A

- ABAIDOO, K. J. R.
A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11685
- ABBATUCCI, J.-S.
Pulmonary functional tolerance to ionizing radiation - An experimental study p0256 A79-46601
- ABDELWAHAB, F. E.
The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans p0195 N79-23651
- ABE, M.
Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76] p0301 A79-53285
- ABEL, L. A.
Saccadic velocity characteristics - Intrinsic variability and fatigue p0165 A79-30663
- ABELES, F.
Firefighters Integrated Response Equipment System [ASME PAPER 78-ENAS-39] p0009 A79-12586
- ABERNETHY, C. M.
Effects of deceleration and rate of deceleration on live seated human subjects [PB-284653/3] p0057 N79-13702
- ABIDIN, B. I.
The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- ABRAHAM, S.
COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- ABRAMS, M. L.
Relating performance in basic electricity and electronics and A schools [AD-A060914] p0085 N79-15584
- ABRAMS, S. G.
Characterization of cardiovascular function by automated monitoring of cardiac contractility and left ventricular wall motion activity p0247 N79-27842
- ACCOMAZZO, E.
In-flight measures of stress reduction due to

- wearing expandable foam earplugs p0273 A79-49986
- ACKLES, K. H.
A Canadian approach to high altitude protection p0045 A79-14435
- ADAMS, J. D.
Molecular sieve oxygen generating system - The argon question /A brief review/ p0274 A79-49994
- ADAMS, J. J.
Study of the use of a nonlinear, rate limited, filter on pilot control signals p0119 N79-17515
- ADAMS, T. D.
Cardiac adaptation to endurance training: Determined by echocardiography and electrocardiography p0194 N79-23648
- ADAMS, W. C.
Effects of ozone inhalation on work performance and maximal oxygen uptake p0133 A79-27103
- Temperature changes during exercise measured by thermography p0235 A79-43209
- ADAVAL, S. K.
Assessment of burns in accident fatalities p0272 A79-49729
- Delayed effects of alcohol ingestion on + Gz tolerance p0272 A79-49730
- ADEY, W. R.
Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555
- AGADZHANYAN, N. A.
The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
- Prospects of using Japanese quail in biological life support systems p0109 N79-16531
- Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0194 N79-23641
- Energy expenditures of man during long exposure to a periodically changing atmosphere p0312 N79-33799
- AGANEZOV, S. A.
The role of lesser circulation hemodynamic changes in pulmonary gas exchange p0300 A79-53066
- AGARWAL, G. C.
Directional errors of movements and their correction in a discrete tracking task p0086 N79-15589
- A quasi-linear control theory analysis of timesharing skills p0120 N79-17520
- AGARWAL, H. K.
Cases of probable Aero Otitis interna p0183 A79-33194
- AGIN, A. K.
A behavioral model of target acquisition in realistic terrain [AD-A056760] p0019 N79-10742
- AHLUWALIA, J. B.
Abolition of a viscerosomatic reflex during oxygen deprivation p0227 A79-41187
- AHLUWALIA, K. J. S.
Cases of probable Aero Otitis interna p0183 A79-33194
- AISEN, S.
Intelligence p0095 N79-15896

- AKERMAN, A., III**
Predicting aircraft detectability p0208 N79-38358
- AKERS, L. A.**
Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715
- AKESEMOV, V. A.**
Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720
- AKHADIEVA, A. KH.**
Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- AKHTAR, M.**
Electrocardiographic abnormalities in Air Force personnel p0182 A79-33191
- Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease p0272 A79-49731
- AKHUNOV, A. A.**
Changes in blood sugar content of dogs exposed to chronic gamma radiation for six years p0014 N79-10706
- AKIMOV, G. A.**
Paroxysmal disorders of consciousness due to flight factors p0161 A79-29300
- AKIYAMA, M.**
Epimerization of L-isoleucine on Na-montmorillonite and its implication to Precambrian chemical fossils p0206 A79-37979
- AKOEV, I. G.**
Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- AKSEMOV, S. I.**
Some comments on interpretations of Viking biological experiments p0255 A79-46465
- ALARIE, Y. C.**
Penal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene p0066 A79-18306
- ALAVERDIAN, A. H.**
Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia p0097 A79-20621
- ALBANESE, R. A.**
Human operators in adversary tracking encounters p0269 A79-48015
- ALBUS, J. S.**
Proximity-vision system for protoflight manipulator arm [NASA-CR-158652] p0197 N79-24658
- ALEKSANDROVA, E. A.**
Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
- Comparison of physiological effects of head-down tilting and immersion on the human body p0298 A79-52279
- ALEKSENKO, N. IU.**
Significance of motor activity for spatial hearing p0043 A79-14372
- ALEKSEEV, M. A.**
Mechanism for the regulation of human posture during movements of the foot p0276 A79-50651
- ALEKSENKO, A. S.**
Blood lipid changes in hypoxic rats p0074 N79-14731
- ALEKSEYA, V. P.**
Antiorthostatic hypokinesia as an approximate model of weightlessness p0108 N79-16520
- ALEKSEYEV, D. A.**
Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction p0108 N79-16521
- ALEKSEYEV, I. I.**
Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite p0108 N79-16517
- ALEM, N. M.**
Whole body response research program [PB-286151/6] p0093 N79-15640
Whole body response research program. Appendix A: Methodology [PB-286152/4] p0094 N79-15641
Whole body response research program. Appendix B: Raw data [PB-286153/2] p0094 N79-15642
Whole body response research program. Appendix C: Processed data [PB-286154/0] p0094 N79-15643
- ALEXANDER, M.**
Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment [AD-A065901] p0197 N79-23668
- ALEXANDRIDIS, A. A.**
The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance p0089 N79-15608
- ALLAKHVERDOV, B. L.**
Coacervate drops - Primitive forms of precells p0204 A79-37962
- ALLAN, J. R.**
Effect of induced cyclic changes of deep body temperature on task performances p0202 A79-37708
Effect of cockpit temperature gradients on the validity of single-point measurements p0234 A79-43203
- Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task p0234 A79-43204
- Effect on performance of cycling deep body temperature between 37.0 and 37.6 C p0274 A79-49993
- ALLEN, C. L.**
The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- ALLEN, G.**
The use of spinal analogue to compare human tolerance of repeated shocks with tolerance of vibration, part 1 p0288 N79-31926
- ALLEN, R. W.**
Use of reward-penalty structures in human experimentation p0089 N79-15607
The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
- A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
- Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions p0117 N79-17493
- ALLER, C.**
Chemicals identified in human biological media, a pilot literature survey [PB-290690/7] p0214 N79-24649
- ALLUSI, E. A.**
Measurement and scaling of workload in complex performance p0164 A79-30659
The measurement and scaling of workload in complex performance [FAA-AM-78-34] p0125 N79-17558
- ALPEROVITCH, Y.**
Adaptive estimation of information values in continuous decision making and control of advanced aircraft [AD-A069741] p0282 N79-30941
- ALTAND, P. D.**
Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice p0268 A79-47855
- ALTMAN, IIA. A.**
The relationship between classical centers of the auditory tract and certain 'nonspecific' brain structures in the organization of the auditory

- function in animals p0043 A79-14370
- ALWAR, R. S. Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300
- AMANTUROVA, K. A. Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- AMELIWA, D. SH. Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- AMOSOV, N. M. Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- ANANIN, V. P. A bioengineering simulator of the human visual apparatus p0166 A79-31180
- AWASHKIN, O. D. Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
- ANDERS, F., JR. Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666
- ANDERSON, A. L. New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1] p0018 N79-10735
- ANDERSON, C. D. Windshield quality and pilot performance measurement utilizing computer-generated imagery p0137 A79-28165
- ANDERSON, D. B. The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204] p0055 N79-13693
- ANDERSON, D. W. Suppression of the immune response by ultrasound p0142 N79-18560
- ANDERSON, D. Z. A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles p0294 A79-51038
- ANDERSON, H. BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft [NASA-TM-58217] p0261 N79-29784
- ANDERSON, R. A. Functional connections of the central auditory nervous system: Thalamocortical corticothalamic and corticotectal connections of the AI, AII and AAF auditory cortical fields p0246 N79-27839
- ANDERSON, R. C. Facial damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene p0066 A79-18306
- ANDREWS, H. C. Digital color image compression in a perceptual space p0136 A79-28013
- ANDREYeva, O. Light and color on a manned spacecraft p0059 N79-13996
- ANDRUK, F. S. Aluminized firefighters' crash-rescue protective hood: Facepiece-visor redesign study [AD-A066492] p0223 N79-25764
- Aluminized firemen's (fire proximity) handwear: Redesign of experimental prototype [AD-A069895] p0290 N79-31940
- ANGELL, J. B. A study of noninvasive blood pressure measurement techniques p0294 A79-51036
- ANISIMOV, G. V. A method of evaluating the pupillary reaction to vestibular stimuli p0016 N79-10717
- ANNIS, J. F. Variability in human body size p0032 N79-11736
- ANSELMO, V. J. Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis [NASA-CR-162103] p0279 N79-30922
- ANTIPOV, V. V. The time parameter in exposures to microwave radiation p0105 A79-24419
- Time parameter in microwave irradiation p0277 A79-50694
- ANTON, D. J. Prediction of body temperatures during exercise in flying clothing p0273 A79-49989
- ANTONETS, V. A. Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiosignals p0276 A79-50658
- APANASENKO, Z. I. Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- APPLEMAN, R. A. Algal growth under multiple nutrient limiting conditions p0013 N79-10692
- APUKHOVSKAYA, L. I. Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- ARAYA, S. Possible contribution of transferable exogenous DNA in prokaryotic evolution p0205 A79-37971
- ARCHER, G. T. User's instructions for the Guyton circulatory dynamics model using the Univac 1110 batch and demand processing (with graphic capabilities) [NASA-CR-160215] p0218 N79-25731
- User's guide for the Skylab integrated medical data analysis system [NASA-CR-160189] p0220 N79-25740
- ARCHER, L. T. Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
- ARISTAKHOV, V. M. Biological effects of a magnetic field p0172 N79-20734
- ARMITAGE, R. Rhythms in human performance - 1-1/2-hour oscillations in cognitive style p0210 A79-39601
- ARMSTRONG, R. M. Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- ARNO, R. Wildlife monitoring program plan [NASA-TM-78578] p0190 N79-23626
- AROMATORIO, D. K. Calcium regulation in smooth muscle: Isolation and characterization of the myosin light chain kinase p0024 N79-11680
- ARP, G. K. Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873] p0107 N79-16512
- ARSENEVA, L. I. Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
- ARUIN, A. S. Biomechanical properties of muscles and the efficiency of movement p0276 A79-50652
- ARUTIUNIAN, R. A. Effect of the blockade of hypothalamic adrenergic structures on thermoregulatory reactions p0167 A79-31950
- ASANO, S. Accuracy of RGD approximation for computing light

- scattering properties of diffusing and motile bacteria p0233 A79-42448
- ASGARI, M.**
The effect of plasmoidal slime on the metabolism of haploid cells of *Physarum flavicomum* and the respiration of isolated mitochondria p0105 A79-24513
- ASHKEMAZI, H.**
Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218
- ASHWORTH, B. R.**
Helmet weight simulator [NASA-CASE-LAR-12320-1] p0223 N79-25761
- ASHWORTH, G. R.**
Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
- ASKANAZI, J.**
Influence of exercise and CO₂ on breathing pattern of normal man p0237 A79-43704
- ASKINS, B. S.**
Autoradiographic enhancement of mammograms p0227 A79-40773
- ASLING, C. W.**
Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 1: Endochondral osteogenesis; medullary bone turnover p0022 N79-11665
Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone p0022 N79-11666
- ASLING, W.**
Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment p0022 N79-11667
- ASYAMOLOV, B. F.**
Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
- ATAMANYUK, M. Y.**
Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- ATEN, J. B. T.**
Evaluation of the risks involved in the application of tritium gas and measures which have to be taken [MBL-1978-6] p0122 N79-17541
- ATTERBOM, H. A.**
Effect of impermeable clothing and respirator on work performance. Part 1: Laboratory studies [SAND-77-2132] p0034 N79-11748
- ATWOOD, M. E.**
A critically annotated bibliography of the literature on human factors in computer systems [AD-A058081] p0052 N79-12707
- AUDET, B. P.**
Field evaluation of experimental crash-crew firefighter's facepiece [AD-A066544] p0223 N79-25765
- AUFFRET, R.**
Radiological examination of the Rachis and fitness for employment as a helicopter pilot p0151 N79-19634
Vertebral pains in helicopter pilots p0153 N79-19656
- AUGUSTINE, W. L.**
A head-up display for mid-air drone recovery p0090 N79-15615
- AULT, B. T.**
Evaluation of kinesthetic-tactile displays using a critical tracking task p0119 N79-17516
- AUME, N. M.**
Computer-graphic design for human performance [AD-A055132] p0046 A79-15399
- AUST, G.**
Results of tests of the equilibrium organ of candidates for payload expert for the first Spacelab mission [DGLR PAPER 78-134] p0042 A79-14084
- Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80] p0301 A79-53288
- AUSTIN, P. C. G.**
Isolation of virus-augmented tumor antigens p0142 N79-18564
- AVDEEV, P. S.**
Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength p0002 A79-10648
- AVELLINI, B. A.**
A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
- AVULA, X. J. R.**
Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles p0286 N79-31917
- AWDEH, M. R.**
The evolutionary pattern of exercise-induced ST segment depression p0251 A79-44166
- AYOUB, M. M.**
Seating, console and workplace design - Seated operator reach profiles p0036 A79-13188
Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189
- AZHAEV, A. M.**
Model of human heat exchange and identification of its parameters Physiological studies and mathematical modeling p0159 A79-28739

B

- BABUNASHVILI, M. K.**
Use of the systems analytic approach for organization and coordination of complex biomedical research p0079 N79-14767
- BABURINA, Y. B.**
The cosmonaut in flight [NASA-TT-F-17438] p0032 N79-11729
- BABUSHKOVA, D.**
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- BACHURINA, T. I.**
Cerebral hemodynamics and visual analyzer function following exposure to bright light p0109 N79-16525
- BACK, K. C.**
Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133] p0189 N79-22755
- BADAMI, V.**
General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4] p0113 N79-16556
- BADLER, H.**
Analysis and validation of human biodynamic models [AD-A059013] p0058 N79-13714
- BADLER, H. I.**
A spherical representation of a human body for visualizing movement p0301 A79-53096
- BAEHR, E. F.**
Intraocular pressure reduction and regulation system [NASA-TM-79187] p0260 N79-28881
- BAEV, V. I.**
Epiphysis of rats under the combined action of hypoxia, hypercapnia and cooling p0256 A79-46680
- BAHILL, A. T.**
How does the saccadic eye movement controller adapt for pathological states p0046 A79-14961
The trajectories of saccadic eye movements p0065 A79-18250
Linearization and sensitivity analysis of model for human eye movements p0102 A79-23783

- BAILEY, J. P.**
The effect of increased monitoring load on vigilance performance using a simulated radar display
p0236 A79-43674
- BAILEY, M.**
Insulated firefighters' crash-crew rescue boots and components: Field and laboratory evaluation [AD-A068264]
p0262 N79-29795
- BAILEY, M. T.**
The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement
p0028 N79-11703
- BAISE, E. J.**
Human Factors Society, Annual Meeting, 22nd, Detroit, Mich., October 16-19, 1978, Proceedings
p0062 A79-18201
- BAKER, B. L.**
Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue
p0020 N79-11653
- Responses of crown gall tissue to the space environment: Tumor development and anatomy
p0020 N79-11654
- BAKER, D. G.**
Hyperthermia in the treatment of cancer: A review of the radiobiological basis
p0017 N79-10729
- BAKER, D. W.**
Cardiac blood flow measurement - A component of the comprehensive cardiac examination
p0295 A79-51041
- BAKER, R.**
Responses of crown gall tissue to the space environment: Tumor development and anatomy
p0020 N79-11654
- BALAKHOVSKIV, I. S.**
Dynamics of Cosmonauts' blood biochemistry during space missions
p0072 N79-14717
- BALASHOVA, T. S.**
Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia
p0165 A79-30696
- BALISH, E.**
Effect of space flight on cell-mediated immunity
p0021 N79-11661
- BALKWILL, D. L.**
Attachment to autoclaved soil of bacterial cells from pure cultures of soil isolates
p0297 A79-51701
- BALLAS, J. A.**
Two approaches to category representation in aural classification [AD-A066705] N79-25754
- Predicting individual listener confusions in the classification of complex, steady-state sounds [AD-A066704]
p0222 N79-25755
- Classification of amplitude-modulated noise patterns with extended practice [AD-A066703]
p0222 N79-25756
- BALLDIN, U. I.**
Intracardial gas bubbles and decompression sickness while flying at 9,000 m within 12-24 h of diving
p0010 A79-12866
- Case report - Intracardial gas bubbles in relation to altitude decompression chokes
p0011 A79-12871
- BALOH, R. W.**
Effect of alcohol and marijuana on eye movements
p0101 A79-23469
- BANDE, J.**
Follow-up and transversal study of vital capacity and FEV sub values among personnel of the Belgian Army forces
p0028 N79-11706
- BANDERET, L. E.**
Sustained operations and sleep deprivation - Effects on indices of stress
p0009 A79-12859
- BANERJEE, K. R.**
Effects of partial sleep deprivation on psychological performance and behaviour
p0200 A79-37130
- Design, fabrication and utility of a flight oriented performance test**
p0271 A79-49728
- BANIN, A.**
Chemical fingerprints of life in terrestrial soils and their possible use for the detection of life on Mars and other planets
p0136 A79-27929
- BANK, H.**
Gas diffusion liquid storage bag and method of use for storing blood [NASA-CASE-NPO-13930-1]
p0076 N79-14749
- BAR-NUU, A.**
Synthesis of organic compounds from carbon monoxide and water by UV photolysis
p0099 A79-22077
- BARABANSHCHIKOV, V. A.**
Forms of oculomotor activity under conditions of positive visual feedback
p0276 A79-50657
- BARANOV, A. G.**
Norepinephrine action on smooth muscle cells of coronary arteries
p0208 A79-38149
- BARANOV, V. M.**
Energy expenditures of man during long exposure to a periodically changing atmosphere
p0312 N79-33799
- BARANSKA, W.**
Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936
p0274 A79-49992
- BARANSKI, S.**
Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782
p0101 A79-23468
- Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936
p0274 A79-49992
- Preliminary selection of candidates for space flights [IAF PAPER 79-83]
p0302 A79-53289
- BARASHKOV, V. A.**
Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems
p0246 N79-27834
- BARBER, P. W.**
Electromagnetic absorption in a multilayered model of man
p0226 A79-40650
- BARBIER, M.**
Biological study of tobacco seeds flown in the joint Apollo-Soyuz test-project
p0006 A79-12519
- BARDLEY, J. E.**
The Canadian Forces Life Quality Improvement Programme
p0026 N79-11693
- BARENGOLTZ, J. B.**
The effect of 1 to 5 keV electrons on the reproductive integrity of microorganisms
p0147 N79-19025
- BAREB, A. S.**
Physiologicohygienic and ergonomic aspects of Salut 6 cosmonauts extravehicular activity /EVA/
p0303 A79-53486
- Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth
p0244 N79-27826
- BARET, A.**
Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology
p0256 A79-46603
- BARFIELD, A. F.**
Flight experience with manually controlled unconventional aircraft motions
p0088 N79-15602
- BARGHOORN, E. S.**
Biological implications of the Viking mission to Mars
p0045 A79-14595
- BARKER, N. D.**
Application of an isolated heart model to investigate blood-oxygen delivery
p0296 A79-51112

- BARLOW, C. H.**
Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- BARLOW, J. S.**
Computerized clinical electroencephalography in perspective p0226 A79-40648
- BARNES, J. A.**
Lightweight helmet-mounted eye movement measurement system p0303 A79-53516
- Lightweight helmet-mounted eye movement measurement system p0090 N79-15619
- A review of individual performance in air-to-ground target detection and identification studies [AD-A061580] p0124 N79-17551
- BARNES, M. J.**
Factors that affect display size criteria in a cockpit display system p0063 A79-18212
- BARRETT, J. W.**
The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells p0141 N79-18558
- BARNETTE, J. P.**
Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix p0063 A79-18214
- BARNEY, C. C.**
Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold p0128 A79-24636
- Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- BARNWELL, T. P., III**
Speech quality measurement [AD-A056272] p0033 N79-11745
- BARON, S.**
Closed loop models for analyzing the effects of simulator characteristics p0087 N79-15598
- Combined monitoring, decision and control model for the human operator in a command and control desk p0092 N79-15631
- The effects of deviate internal representations in the optimal model of the human operator p0114 N79-17477
- A decision, monitoring and control model of the human operator applied to an RPV control problem [AD-A069880] p0282 N79-30939
- Development of human performance models for man-machine system simulation [AD-A069879] p0282 N79-30940
- BARON, W. S.**
Primate cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram p0104 A79-24065
- BARR, J. K.**
Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
- BARRETT, A. H.**
Microwave thermography: Physical principles and diagnostic applications p0083 N79-15567
- BARROW, W. W.**
Effects of lead on subcellular components in bacteria p0142 N79-18565
- BARTEL, R. C.**
Synthetic training and evaluation - Some current issues p0275 A79-50550
- BARTSCH, H.-J.**
Problem of modeling the mechanism of heart contraction p0275 A79-50287
- BARTZ, A. E.**
Information transmission during eye movements p0209 A79-38360
- BARZA, M. J.**
Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
- BASOW, R.**
Aircraft personnel restraint subsystems definition of deficiencies and requirements [AD-A058995] p0053 N79-12711
- BASSETT, D. J. P.**
Glucose metabolism in rat lung during exposure to hyperbaric O₂ p0221 A79-36047
- BASU, D.**
Health effects associated with diesel exhaust emissions, literature review and evaluation [PB-289817/9] p0171 N79-20727
- BATEMAN, R. P.**
Investigation of arrangement of multipurpose displays and use of tailored control logic in a fighter aircraft cockpit p0038 A79-13205
- BATOV, V. I.**
Psychological experiment on components of the meaning of work p0071 N79-14709
- BATUEV, A. S.**
Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems p0043 A79-14371
- BAUMGARDNER, F. W.**
The dynamic oxygen-regulator test stand [AD-A060978] p0125 N79-17560
- Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749] p0190 N79-22758
- BAWIN, S. M.**
Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555
- BAYER, A. R., JR.**
Calibration of three year old child dummies [PB-288961/6] p0157 N79-19692
- BAYLINK, D. J.**
Quantitative analysis of selected bone parameters p0022 N79-11668
- Quantitative analysis of selected bone parameters p0023 N79-11676
- BAYLOR, D. A.**
Thermal activation of the visual transduction mechanism in retinal rods p0230 A79-41746
- BAZHENOV, IU. I.**
Temperature effect of muscular work in the white rat during hypoxia p0097 A79-20654
- BEAMON, W. S.**
Observer performance using a video display p0039 A79-13217
- BEANE, W. E.**
Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
- BEATRICE, E. S.**
Laser safety bioeffects research - Histopathology of retinal effects p0138 A79-28169
- BEAUCHAMP, D. E.**
The impact of a Learn-Forget-Learn (LFL) curve and learning curves on a system effectiveness model [AD-A061622] p0124 N79-17550
- BECK, E. A.**
Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
- BECK, G.**
Prebiotic coordination chemistry: The potential role of transition-metal complexes in the chemical evolution [NASA-TM-75381] p0169 N79-20715
- BECK, T. W.**
Detection of bubbles in decompression sickness p0041 A79-13573
- BECKER, H. S.**
A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study

- [PB-284681/4] p0059 N79-13719
 A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720
- BECKER, R. O. Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666
- BECKER, W. An analysis of the saccadic system by means of double step stimuli p0270 A79-49480
- BECKMAN, D. A. Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
- RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
- BEDI, J. P. Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201
- BEDENKO, V. S. Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- BEERS, K. Spinal injuries in the F/PB-111 crew escape system p0274 A79-49996
- BEHAR, I. Training requirements for helicopter operation with night vision goggles p0153 N79-19650
- BEIERGROHSLEIN, D. Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4] p0051 N79-12698
- BEISER, L. Visual simulation and image realism; Proceedings of the Seminar, San Diego, Calif., August 30, 31, 1978 p0137 A79-28156
- BEJAR, I. I. A construct validation of adaptive achievement testing [AD-A063148] p0173 N79-20742
- BEJCZY, A. K. Advanced teleoperators p0187 A79-34982
- Event-driven displays for manipulator control p0089 N79-15610
- Terminal guidance sensor system [NASA-CASE-NPO-14521-1] p0174 N79-20746
- BELESLIN, B. Biomagnetism and artificial magnetic stimulation of living structures [IAF PAPER 78-52] p0002 A79-11222
- BELETSKII, IU. V. Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiosignals p0276 A79-50658
- BELITCH, A. I. Continuous long-duration recording of the heart rate by means of a noncontact technique p0300 A79-53068
- BELITSKAYA, R. A. Changes in amount and composition of phospholipids in rat skeletal muscle microsomal fraction under the influence of a flight aboard the Kosmos-690 biosatellite p0108 N79-16519
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
- BELKIN, V. I. The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- BELL, E. L. Electrical parameter values of some human tissues in the radiofrequency radiation range [AD-A064202] p0189 N79-22754
- BELLENKES, A. H. Space medicine - A prognosis for future research [IAF PAPER 78-ST-17] p0003 A79-11364
- The biomedical implications of engineering in space p0166 A79-31122
- The biomedical implications of extended duration zero-g extravehicular activities [IAF PAPER 79-ST-06] p0303 A79-53447
- BELYAVIN, A. J. Core temperature measurement in man p0010 A79-12862
- Effect of cockpit temperature gradients on the validity of single-point measurements p0234 A79-43203
- Prediction of body temperatures during exercise in flying clothing p0273 A79-49989
- BELYI, IU. M. Investigation of psychological compatibility of crew members of multiseat aircraft p0166 A79-31165
- BELYTSCHKO, T. A three dimensional discrete element dynamic model of the spine, head and torso p0285 N79-31910
- Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826
- BENDER, J. Advanced industrial robot control systems [PB-287273/7] p0113 N79-16558
- BENDET, Y. A. Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- BENEL, R. A. Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
- BENIGUS, V. A. Carbon monoxide and human time discrimination - Failure to replicate Beard-Wertheim experiments p0102 A79-23472
- BENNETT, A. H. Telehealth handbook: A guide to telecommunications technology for rural health care [PB-292557/6] p0241 N79-26778
- BENNETT, G. Cardiovascular fitness of pilots of transport aircraft p0031 N79-11726
- BENNIS, B. J. Effects of stimulus onset and image motion on contrast sensitivity p0231 A79-42231
- BENSON, A. J. Voluntary movement control and adaptation to cross-coupled stimulation p0009 A79-12860
- BENSON, J. B. Whole body response research program [PB-286151/6] p0093 N79-15640
- Whole body response research program. Appendix A: Methodology [PB-286152/4] p0094 N79-15641
- BENTON, E. V. Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206 p0023 N79-11677
- BERAN, A. V. An improved method for inducing hypothermia and rewarming p0267 A79-47339
- BERBARI, E. J. The effects of filtering the His-Purkinje system electrocardiogram p0130 A79-26073
- BERBERICH, J. J. Evidence for increased intrathoracic fluid volume in man at high altitude p0305 A79-54266
- Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333] p0220 N79-25743
- The effects of dehydration on peripheral cooling [AD-A065332] p0220 N79-25745

- BEREGOVOI, G. T.**
On the man's adaptation to the operator's work
under stressful conditions of space flight
[IAF PAPER 78-A-56] p0003 A79-11345
- Experimental and psychological investigations in
aviation and astronautics p0041 A79-13998
- Psychological training - One of the most important
factors of enhancing the safety of space flights
[IAF PAPER 79-A-24] p0303 A79-53426
- BEREZHNAYA, E. K.**
Comparative evaluation of the effectiveness of
visual and aural tracking of a sinusoidal signal
p0159 A79-28736
- BEREZIN, IU. D.**
Experimental determination of maximum permissible
exposure to laser radiation of 1.54-micron
wavelength p0002 A79-10648
- BEREZOV, V. P.**
Compensatory reactions of the kidneys to
orthostatic factors p0015 N79-10708
- BEREZOVSKII, V. A.**
Individual differences in hypoxic responses at
high altitudes p0159 A79-28738
- The physiological role of surface-active
substances in the lung p0296 A79-51117
- BERGER-WACHOW, CH.**
Adjustment of an electronic model for
electrocardiogram simulation p0232 A79-42240
- BERGER, K. R.**
Clinical importance of directional statistics for
electrocardiographic differentiation of smoking
habits p0098 A79-21246
- BERGER, M. D.**
The effect of impact acceleration on the
electrical activity of the brain p0287 N79-31921
- BERGH, U.**
Physical performance and peak aerobic power at
different body temperatures p0221 A79-36046
- BERGMANN, S. R.**
The effect of moderate hypothermia on the
circulatory and myocardial consequences of acute
coronary ligation in dogs p0049 N79-12683
- BERGSTROM, D. A.**
Effect of electroconvulsive shock on monoaminergic
receptor binding sites in rat brain p0162 A79-29925
- BERGSTROM, S. L.**
Thermal resistance of naturally occurring airborne
bacterial spores p0131 A79-26147
- BERLINGER, D. B.**
Response surface methodology as a manipulator of
complex task difficulty p0039 A79-13211
- Collision avoidance response stereotypes in pilots
and nonpilots p0068 A79-18995
- BERRISFORD, K. M.**
Refinement of a computer simulation model for
evaluating DADS display concepts p0038 A79-13209
- BERKOVICH, Y. A.**
Adaptive optimization of exchange of gases in
plants in a sealed phytotron p0313 N79-33806
- BERLINER, J. E.**
The effects of deviate internal representations in
the optimal model of the human operator p0114 N79-17477
- BERMUDEZ, J. M.**
Pilot performance during flight simulation with
peripherally presented visual signals p0063 A79-18213
- BERNAUER, E. M.**
Temperature changes during exercise measured by
thermography p0235 A79-43209
- BERNHARDT, J.**
Biological effects of electromagnetic fields
- BERRY, W.**
Biological specimen holding facilities for
Spacelab experiments
[IAF PAPER 78-ENAS-10] p0003 A79-11224
- BERRY, W. E.**
Animal life support transporters for
Shuttle/Spacelab
[ASME PAPER 78-ENAS-10] p0006 A79-12559
- BERS, D. M.**
A correlation of the effects of cationic
uncouplers on intact cardiac muscle and on
calcium bound to isolated cardiac muscle plasma
membranes p0111 N79-16540
- BERTASH, V. I.**
Epiphysiology of rats under the combined action of
hypoxia, hypercapnia and cooling p0256 A79-46680
- BESPALOVA, L. A.**
Ultrastructure of lymph nodes of dogs exposed to
long-term external gamma radiation p0312 N79-33804
- BEVER, D. L.**
An illness-injury severity index p0050 N79-12688
- BEVERLEY, K.**
The visual perception of motion in depth p0210 A79-39087
- BHARGAVA, P. M.**
Radiological diagnosis of spinal injuries and
deformities p0272 A79-49735
- BHATTACHARYA, A.**
Cardiac responses of dogs to nonsynchronous and
heart synchronous whole-body vibration p0162 A79-29728
- Sweating responses during heat acclimation and
moderate conditioning p0185 A79-33803
- Deconditioning-induced exercise responses as
influenced by heat acclimation p0273 A79-49985
- Modification of cardiac function by synchronized
oscillating acceleration p0278 A79-50908
- BICKING, C. A.**
Report of the Workshop on Biological Screening Tests
[PB-294303/3] p0279 N79-30916
- BIDANI, A.**
Analysis of P_{CO_2} differences during rebreathing
due to slow pH equilibration in blood p0067 A79-18958
- BILAY, V. I.**
Orenburg symposium on mycotoxins p0175 N79-21749
- BINNARD, R.**
Quantitative analysis of mating behavior in aging
male *Drosophila Melanogaster* p0252 A79-44799
- Effects of weightlessness on the embryonic
development and aging of *Drosophila* p0022 N79-11670
- BIRK, J.**
Visually estimating workpiece pose in a robot hand
using the feature points method p0269 A79-48018
- A new application of LBNP to measure orthostatic
tolerance before and after O-G simulation /water
immersion/
[IAF PAPER 79-87] p0302 A79-53290
- General methods to enable robots with vision to
acquire, orient, and transport workpieces
[PB-287199/4] p0113 N79-16556
- BISH, K. G.**
Evoked potential correlates of display image quality p0068 A79-18998
- BISHOP, P. J.**
Aircrew helmet protection against potential
cerebral concussion in low-magnitude impacts p0201 A79-37705
- BITTNER, A. C., JR.**
Effects of vibration on humans - Performance
decrements and limits p0035 A79-13185
- Seating, console, and workplace design -
Integration of literature and accommodation model p0036 A79-13189

- BIZIN, Y. P.**
Effect of hypokinesia on animal resistance to
chemical agents
p0109 N79-16524
- BLAAUW, G. J.**
The driving simulator developed by the Institute
for Perception TNO. A validation study in
straight road driving
[IZP-1978-16-PR-1]
Car driving as a cybernetic task
[IZF-1979-6]
p0145 N79-18588
p0309 N79-32838
- BLACK, S.**
Cosmic ray effects on the eyes of rats flown on
COSMOS 782
p0022 N79-11669
- Cosmic ray effects on the eyes of stationary and
centrifuged rats flown on COSMOS 936, experiment
K-207
p0024 N79-11678
- BLACK, T. L.**
Development of recommendations to improve controls
operability
[PB-284433/0]
p0053 N79-12714
- BLAIR, H.**
Synthesis of amino acids under primitive earth
conditions in the presence of clay
p0203 A79-37930
- BLANC, P.**
Sensory illusions of vestibular origin
p0255 A79-46596
- BLANKENHORN, D. H.**
Computer quantitation of coronary angiograms
p0293 A79-51030
- BLANKENSHIP, J. E.**
The effects of high nitrogen tensions of the
properties of neuronal membranes and synaptic
transmission
[AD-A063856]
p0213 N79-24647
- BLASCO, M.**
A simple technique for evaluation of vitality loss
in aging mice, by testing their muscular
coordination and vigor
p0274 A79-50205
- BLASKO, G.**
Effect of hypoxia on the development of *Drosophila*
melanogaster /Meigen/
p0165 A79-30667
- BLOMQVIST, C. G.**
ST isopotential precordial surface maps in
patients with acute myocardial infarction
p0098 A79-21245
- Early cardiovascular adaptation to simulated zero
gravity
p0162 A79-29727
- Early cardiovascular adaptation to zero gravity
simulated by head-down tilt
[IAF PAPER 79-77]
p0301 A79-53286
- BLOOM, A.**
Oral/nasal breathing systems in the year 2000
p0183 A79-33621
- BLUTH, B. J.**
Consciousness alteration in space
[AIAA PAPER 79-1430]
p0187 A79-34853
- BOAL, R. S.**
Modeling human tracking performance in a high
G-stress environment
p0269 A79-48012
- BOCHKAREVA, L. E.**
Myocardial infarction in young men
p0188 A79-35137
- BOCKEMUELLER, E. A.**
Man, dummy, test vehicle: A comparison of test
results for escape systems with the 3 different
test methods
p0287 N79-31924
- BOELTER, J.**
Man-machine analysis of translation and work tasks
of Skylab films
[NASA-CR-151879]
p0146 N79-18592
- BOKEV, B. B.**
Vertical orientation of man during 5-day
antiorthostatic hypokinesia (-4, -8 and -12 deg
head down position)
p0313 N79-33810
- BOLLER, H. E.**
The human operator in the control system: Linear
models
p0132 A79-26356
- BOLSHOV, V. M.**
Studies of venous circulation in the crew of the
Salyut-5 orbital station
p0310 N79-33791
- BOLTZ, R. L.**
Stereopsis in monkeys using random dot stereograms
- The effect of viewing duration
p0271 A79-49481
- BONASHEVSKAYA, T. I.**
Chemicals in environment affect man's physiology
p0077 N79-14754
- BONDAREV, V. B.**
Amino acids in southern Kamchatka hot springs
p0182 A79-33122
- BONORIS, P. E.**
Predicting coronary artery disease with treadmill
stress testing Changes in R-wave amplitude
compared with ST segment depression
p0186 A79-34284
- BONTE, F. J.**
ST isopotential precordial surface maps in
patients with acute myocardial infarction
p0098 A79-21245
- BONTING, S. L.**
Light flashes in space
p0100 A79-22261
- BOONE, J. O.**
The development of the ATC selection battery: A
new procedure to make maximum use of available
information when correcting correlations for
restriction in range due to selection
[FAA-AM-78-36]
N79-25752
- The selection of air traffic control specialists:
Two studies demonstrating methods to insure an
accurate validity coefficient for selection
devices
[AD-A068581]
p0281 N79-30932
- BOOTH, F. W.**
Recovery of skeletal muscle after 3 mo of hindlimb
immobilization in rats
p0268 A79-47856
- BOOZE, C. F.**
Morbidity experience of air traffic control
personnel - 1967-77
p0101 A79-23466
- The morbidity experience of air traffic control
personnel, 1967-1977
[AD-A056053]
p0051 N79-12696
- BORAH, J.**
Sensor mechanism modeling
[AD-A069439]
p0262 N79-29796
- BOREN, B. E., JR.**
Cost analysis of pilot training systems
[SAE PAPER 781005]
p0130 A79-25887
- BORGES, H. J.**
A new application of LBNP to measure orthostatic
tolerance before and after 0-G simulation /water
immersion/
[IAF PAPER 79-87]
p0302 A79-53290
- BORGMAN, T. J., JR.**
Transient intraventricular conduction defects
observed during experimental impact in human
subjects
p0285 N79-31907
- BORODULINA, I. I.**
Distinctions referable to excretion of end
products of protein metabolism in urine of man
submitted to 182-day antiorthostatic hypokinesia
p0193 N79-23635
- BOSKER, G. W.**
A theoretical model to estimate some ergonomic
parameters from age, height and weight
p0132 A79-26150
- BOSSARD, A.**
Abundance of organic compounds photochemically
produced in the atmospheres of the Outer Planets
p0210 A79-39075
- BOTKIN, D. B.**
Closed regenerative life support systems for space
travel - Their development poses fundamental
questions for ecological science
p0228 A79-41702
- BOULANGER**
Evaluation of the amount of exposure to vibrations
transmitted to the whole body case of vibrations
due to a loader mounted on caterpillar tracks, a
fork-lift truck and a hydraulic excavator
[RAE-LIB-TRANS-1930]
p0080 N79-14773

- BOULIER, A.**
Pulmonary functional tolerance to ionizing radiation - An experimental study
p0256 A79-46601
- BOUTELIER, C.**
Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test
p0047 A79-15490
- Survival and protection of aircrew in the event of accidental immersion in cold water [AGARD-AG-211(PNG)]
p0196 N79-23661
- BOWEE, E. C.**
Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4]
p0197 N79-25706
- BOWEE, T. E.**
A head-up display for mid-air drone recovery
p0090 N79-15615
- BOWMAN, B. M.**
Whole body response research program [PB-286151/6]
p0093 N79-15640
- BOWMAN, G. H.**
Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37]
p0008 A79-12584
- BOWMAN, G. H., III**
Advanced life support equipment for nitrogen tetroxide environments
p0169 N79-20432
- BOWMAN, J. S.**
Physiologic and performance measurements in simulated airborne combined stress environments
p0202 A79-37710
- BOYD, J. F.**
Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104
p0021 N79-11659
- BOYDSTUM, J. A.**
Psychosocial aspects of syncope and vertigo in aircrew
p0027 N79-11701
- BOYLE, D.**
Eye-ball control
p0270 A79-49225
- BOYNTON, R. H.**
Primate cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram
p0104 A79-24065
- BOYS, J. T.**
A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart
p0045 A79-14602
- BOYTER, J. K.**
The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212]
p0056 N79-13694
- BOZZETTI, S.**
On the measurement of hazardous e.m. fields radiated through an aperture
p0233 A79-42486
- BRADFORD, L. W.**
Binocular holographic helmet mounted display [AD-A062761]
p0174 N79-20749
- BRADY, J.**
The effect of 1 to 5 keV electrons on the reproductive integrity of microorganisms.
p0147 N79-19025
- BRADY, J. V.**
Methodological and operational aspects of programmed environment research [AD-A068587]
p0289 N79-31936
- BRANDENBERGER, G.**
Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects
p0297 A79-52023
- BRAITHWAITE, M.**
Growth of pulmonary circulation in normal pig - Structural analysis and cardiopulmonary function
p0067 A79-18961
- BRATTSEV, N. P.**
Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits
p0108 N79-16523
- BRATUS, T. W.**
Current conceptions of the mechanism of the effect of chemical stimulus on taste receptors
p0043 A79-14375
- BRAUNS, IIA. A.**
Investigation of blood subjected to volume tension
p0275 A79-50261
- BREMOND, J.**
Psychological selection of payload astronauts
p0047 A79-15488
- BRENNEMECKE, R.**
Computer quantitation of angiographic images
p0293 A79-51028
- BRETTEL, H.**
The peripheral critical flicker frequency
p0271 A79-49482
- BRICTSON, C. A.**
Air Combat Maneuvering Range /ACMR/ - Has operational performance measurement entered a Golden Age
p0064 A79-18221
- A7 training effectiveness through performance analysis [AD-A056230]
p0031 N79-11728
- BRIDGEMAN, B.**
Omnidirectional increase in threshold for image shifts during saccadic eye movements
p0139 A79-28198
- BRIGHT, C. W.**
Prosthesis coupling [NASA-CASE-KSC-11069-1]
p0240 N79-26772
- BRILL, A. B.**
Autoradiographic enhancement of mammograms
p0227 A79-40773
- BRILLING, G.**
Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971]
p0080 N79-14774
- BRINKHUS, H. B.**
Skin-resistance measuring device with higher resolution
p0252 A79-45476
- BRINKLEY, J. W.**
Application of biodynamic models to the analysis of F-16 canopy birdstrike
p0285 N79-31911
- BROCK, P. J.**
Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions
p0161 A79-29336
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man
p0163 A79-30624
- Sweating responses during heat acclimation and moderate conditioning
p0185 A79-33803
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man
p0235 A79-43208
- Deconditioning-induced exercise responses as influenced by heat acclimation
p0273 A79-49985
- BRODY, W. R.**
Current status of cardiovascular imaging by transmission computed tomography
p0294 A79-51032
- Quantitative flow estimation with transcutaneous Doppler ultrasound
p0295 A79-51042
- BROELL, J. R.**
Influence of exercise and CO₂ on breathing pattern of normal man
p0237 A79-43704
- BROEZE, B. J.**
Effects of low temperature on in vivo and in vitro protein synthesis in Escherichia coli and Pseudomonas fluorescens
p0131 A79-26141
- BRONSKILL, P. M.**
Inadequacy of prebiotic synthesis as origin of proteinous amino acids
p0253 A79-45643
- BROOKE, J. D.**
Bimodal relationship of human tremor and shivering on introduction to cold exposure
p0298 A79-52278
- BROOKS, D. E.**
A method for separating biological cells

- [NASA-CASE-MFS-23083-1] p0175 N79-21743
BROOKS, G. A.
 Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- BROOKS, J.**
 A critical assessment of the origin of life p0207 A79-37985
- BROOKS, T. L.**
 Human/computer control of undersea teleoperators p0089 N79-15612
- BROSE, H.**
 Concept definition for an extended duration orbiter ECLSS [NASA-CR-160164] p0197 N79-23666
- BROUOLLET, A. O.**
 Challenges to life support system's future [ASME PAPER 78-ENAS-28] p0008 A79-12577
- BROUSSARD, J. R.**
 Prediction of pilot-aircraft stability boundaries and performance contours p0118 N79-17507
- BROUSSOLLE, B.**
 Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology p0256 A79-46603
- BROWELL, T.**
 General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4] p0113 N79-16556
- BROWER, R. W.**
 Clinical usefulness of radiopaque markers in left ventricular function p0293 A79-51029
- BROWN, A. D.**
 Manual landings in Category 3 conditions p0297 A79-52055
- BROWN, A. H.**
 Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration p0229 A79-41704
- Importance of temperature control for REFLEX, a biological experiment for Spacelab 1 p0230 A79-41716
- BROWN, B.**
 Contrast effects on smooth-pursuit eye movement velocity p0104 A79-24068
- BROWN, G. L. S.**
 The effect of 17alpha-ethynodiol on the radiation sensitivity of mice p0141 N79-18557
- BROWN, J.**
 Increased survival in experimental dog heatstroke after reduction of gut flora p0266 A79-47335
- BROWN, J. E.**
 Subjective motion discrimination in the simulator for air-to-air combat [AD-A059742] p0079 N79-14770
- BROWN, J. L.**
 Changes in critical duration during dark-adaptation p0304 A79-54252
- BROWN, J. N.**
 Medical technology transfer p0048 A79-16138
- BROWN, J. W.**
 Considerations associated with the introduction of female crewmembers in spacecraft and space stations [IAF PAPER 79-A-22] p0303 A79-53424
- BROWN, L. S.**
 Conjoint effect of physical stress and noise stress on information processing performance and cardiac response p0161 A79-29715
- BROWN, O. R.**
 Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- BROWN, P. A.**
 Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
- Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
- Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
- BROWN, R.**
 Advanced industrial robot control systems [PB-287273/7] p0113 N79-16558
- BROWN, S.**
 Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419
- BROWN, T. E.**
 The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- BRUCE, R. A.**
 Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits p0098 A79-21246
- Noninvasive estimation of bilirubin and hemoglobin oxygen saturation in the skin by reflection spectrophotometry p0054 N79-13684
- BRUNEAU, D. E.**
 The growth kinetics of freshwater algae p0174 N79-21740
- BRYAN, C. J.**
 A system for sterilizing objects [NASA-CASE-KSC-11085-1] p0318 N79-33848
- BRYANT, C.**
 Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- BRYANT, H. J.**
 The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission [AD-A063856] p0213 N79-24647
- BRYANT, S. R.**
 The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use p0184 A79-33638
- BRYE, R. G.**
 Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552
- BUAS, M.**
 A theoretical study of membrane diffusion and lymphocyte patching p0142 N79-18563
- BUBB, P.**
 Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters [BMVG-PBWT-78-18] p0282 N79-30944
- BUCCI, T. J.**
 Two-week studies of survivors from exposures to pyrolysis gases p0066 A79-18307
- BUCHANAN, P.**
 Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
- BUCKLEY, C.**
 Relating performance in basic electricity and electronics A schools [AD-A060914] p0085 N79-15584
- BUCKLEY, E. P.**
 Development of a performance criterion for air traffic personnel research through air traffic control simulation [AD-A058082] p0031 N79-11727
- BUDENNAIA, T. IO.**
 Paradoxical reaction of some intracellular antioxidant defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- BUDIG, S. R.**
 Oxygen systems for Army helicopters p0044 A79-14421
- BUDININKAS, P.**
 Four-man rated dual catalyst system for the recovery of water from urine [NASA-CR-152227] p0112 N79-16550
- BUDKO, V. N.**
 Nonparametric model for the detection of signals observed by a human operator on a CRT screen on

- a noise background p0159 A79-28565
- BUDRENE, S. P.**
Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- BUECKER, H.**
The Biostack experiment in the U.S. long exposure duration test program p0227 A79-41230
- BUEHRLEN, L.**
Investigations into the importance of the direction of centrifugal forces acting on the human body [RAE-LIB-TRANS-1945] p0077 N79-14758
- BUERSCH, J. H.**
Computer quantitation of angiographic images p0293 A79-51028
- BUGGE, J. F.**
Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 A79-43202
- BUGLIARELLO, G.**
Basic biomechanics equations for cardiovascular flow p0304 A79-53534
- BUGUET, A.**
Measurement of skin temperatures of active subjects by wireless telemetry p0011 A79-12872
- BUGUET, A. G. C.**
Skin temperature changes in paradoxical sleep in man in the cold p0201 A79-37706
- BUNKER, W. M.**
Training effectiveness versus simulation realism p0138 A79-28166
- BURAKOVSKIY, V. I.**
The role of computer technology mathematical models in treatment of patients following heart surgery p0170 N79-20721
- BURAKOVSKIY, V. M.**
New principles of automation of biomedical research p0078 N79-14763
- BURDEN, R. T., JR.**
An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- BURGEAT, H.**
The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
- BURGIN, R. E.**
False hypothesis and the pilot [SAE PAPER 780528] p0001 A79-10399
- BURKE, K. A.**
Technology advancement of an oxygen generation subsystem [NASA-CF-152257] p0261 N79-28883
- BURKE, M. W.**
Secondary visual workload capability with primary visual and kinesthetic-tactile displays p0064 A79-18220
- BURNAZIAN, A.**
Man in space and on earth [NASA-TM-75602] p0122 N79-17533
- BURNET, H.**
Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology p0256 A79-46603
- BURNETT, J. E.**
Intraocular pressure reduction and regulation system [NASA-TM-79187] p0260 N79-28881
- BURNS, J. W.**
Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis. p0010 A79-12865
- Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries' p0183 A79-33632
- BURNS, M. L.**
Analytical modelling of load-deflection behavior of intervertebral discs subjected to axial compression [AD-A071019] p0316 N79-33830
- BURNS, S. P.**
Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0266 A79-47331
- BURR, M. J.**
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances p0127 A79-24628
- BURTON, A. K.**
Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene p0066 A79-18306
- BURTON, R. R.**
Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
- Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
- Evaluation of assisted positive-pressure breathing on +Gz tolerance p0266 A79-47336
- BUSH, A. H.**
Speech quality measurement [AD-A056272] p0033 N79-11745
- BUSH, W. H., JR.**
Life sciences experiments mission development test program [ASME PAPER 78-ENAS-36] p0008 A79-12583
- BUSIJA, D. W.**
The effect of hyperoxia on cerebral blood flow in the unanesthetized pony p0107 N79-16511
- BUTCHER, W. I.**
Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses p0266 A79-47330
- BUTLER, B. D.**
The lung as a filter for microbubbles p0277 A79-50906
- BUTLER, D.**
Knee flail design limits: Background, experimentation and design criteria [AD-A062384] p0220 A79-25746
- BUTLER, K. C.**
Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4] p0241 N79-26780
- BUTYRSKIY, L. S.**
Voice communication in artificial atmospheres p0048 A79-16500
- BUVET, R.**
A simple analogical model for the selection of optical activity and of the most efficient catalysts in the course of molecular evolution p0204 A79-37957
- BUZUNOV, V. A.**
Characteristics of somatic and autonomic regulation during work of small muscle groups as a function of loading regime p0276 A79-50653
- BYCHKOV, V. P.**
Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antiorthostatic hypokinesia p0193 N79-23635
- Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
- BYERS, S. O.**
Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0028 N79-11704

BYKHOVSKAIA, I. M.
Mechanics of the regulation of the respiratory system in man
p0160 A79-29258

BYNUM, G.
Increased survival in experimental dog heatstroke after reduction of gut flora
p0266 A79-47335

BYNUM, J. A.
Army Aviation Training - Research now and then [SAE PAPER 781008]
p0130 A79-25890

BYRD, L. D.
A tethering system for direct measurement of cardiovascular function in the caged baboon
p0200 A79-36576

BYSTROVA, A. G.
Third Symposium on Motion Sickness
p0313 N79-33814

C

CABARROU, P.
Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute [DLR-FB-78-10]
p0280 N79-30925

CAHILL, M.-C.
Regression models of search time for color-coded information displays
p0209 A79-38359

CAILLE, E. J.
A description of the recent neuropsychological selection of pilots for land forces light aircraft
p0151 N79-19633

CAILLER, B. G.
Two primate biological facility module in Spacelab [IAF PAPER 78-70]
p0003 A79-11229

CAIRNS-SMITH, A. G.
Takeover mechanisms and early biochemical evolution
p0205 A79-37965

CALEB, B.
Increased survival in experimental dog heatstroke after reduction of gut flora
p0266 A79-47335

CALHOUN, G. L.
Control logic design criteria for multifunction switching devices
p0064 A79-18223

CALL, D. W.
Development of a specialized head/face protective device for test parachuting operations
p0045 A79-14437

CALVET, H.
Contribution to the theory of photopic vision: Retinal phenomena [NASA-TM-75507]
p0315 N79-33823

CALVIN, M.
Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes
p0001 A79-10419

CAMMEN, L. M.
Bacteria in a North Carolina salt marsh. Standing crop and importance in the decomposition of Spartina alterniflora [PB-288816/2]
p0153 N79-19668

CAMP, R. T., JR.
The effective acoustic environment of helicopter crewmen
p0152 N79-19645

CAMPBELL, G. W.
New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1]
p0018 N79-10735

CAMPBELL, J. E.
Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components [NASA-CR-158627]
p0197 N79-25705

CANDAS, V.
Human skin wettedness and evaporative efficiency of sweating
p0162 A79-29726

Effect of rate of change in skin temperature on local sweating rate
p0268 A79-47853

CANNON, M. W., JR.
Contrast sensation - A linear function of stimulus contrast
p0271 A79-49483

CAPP, M. P.
The development of a digital video subtraction

system for intravenous angiography
p0294 A79-51033

CARAUX, D.
Pilot workload in the aircraft of the future
p0226 A79-40646

CARBONE, D.
Real-time computerized fluoroscopic cardiac imaging
p0294 A79-51035

CARDEN, J. L.
Systems integration in the development of controlled ecological life support systems [AIAA PAPER 79-1406]
p0187 A79-34842

CARDOSO, J. M.
A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem
p0132 A79-26373

CARETTE, G.
Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m
p0102 A79-23474

CARGO, D.
Results of benthic studies at Calvert Cliffs [PB-294261/3]
p0261 N79-29788

CARL, E. R.
A hazard assessment method for the U.S. Army Microwave Radiation Protection Program
p0129 A79-25304

CARLISLE, B.
Effects of brief exposure of domestic fowl to very intense acceleration fields
p0127 A79-24631

CARMAN, M. K.
An investigation to determine the effect of physical conditioning upon fibrinolytic reactivity in normal young men
p0110 N79-16536

CARO, C. G.
Mass transport in arteries
p0247 N79-27848

CARO, P. W.
Simulator Training Requirements and Effectiveness Study /STRES/
p0063 A79-18216

The relationship between flight simulator motion and training requirements
p0267 A79-47766

CARPENTER, A.
Human factors. Speech communication [PS-5/78]
p0113 N79-16555

CARPENTER, M.
Intestinal transport of hexoses in the rat following chronic heat exposure
p0236 A79-43701

CARR, R. W.
Analysis of naval aviation head and neck injuries (1969-1978) [AD-A057657]
p0026 N79-11689

Evaluation of occupant protection devices and restraint systems [PB-284299/5]
p0053 N79-12713

CARRIE, R.
Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock
p0029 N79-11714

Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers
p0030 N79-11717

CARRETTA, R.
Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy
p0029 N79-11712

CARRIKER, W.
Development of an electrical energy converter for driving left heart assist blood pumps
p0241 N79-26780

CARTER, C. L.
Aortic blood flow velocity during exercise in man
p0216 N79-25710

CARTER, D. B.
The influence of various physiological responses on ratings of perceived exertion before and after training
p0194 N79-23649

CARTER, R. C.
Regression models of search time for color-coded information displays

CARTER, V. E.	p0209 A79-38359	
Development of automated performance measures for introductory air combat maneuvers	p0040 A79-13223	
CASEY, S. M.		
Lateral orientation and cerebral activation - Considerations for information display	p0037 A79-13194	
CASIDA, L. E., JR.		
Effects of magnesium, calcium, and serum on reversion of stable L-forms	p0131 A79-26140	
Minute tubular forms in soil	p0297 A79-51698	
Attachment to autoclaved soil of bacterial cells from pure cultures of soil isolates	p0297 A79-51701	
CASSOU, R.		
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study	p0252 A79-44798	
Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206	p0023 N79-11677	
CASSUTO, Y.		
Circulatory response to arterial hyperoxia	p0221 A79-36048	
CASTELLANET, M. J.		
Predicting coronary artery disease with treadmill stress testing changes in P-Wave amplitude compared with ST segment depression	p0186 A79-34284	
CASTINE, J. W.		
Improved headgear for fixed wing Navy aircrewmen	p0184 A79-33641	
CASTLE, B. L.		
Computer program for calculation of oxygen uptake [NASA-TM-78585]	p0174 N79-21741	
CASTLE, G.		
Computer program for calculation of oxygen uptake [NASA-TM-78585]	p0174 N79-21741	
CASTLEMAN, K. R.		
COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers	p0024 N79-11679	
Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1]	p0050 N79-12694	
CATTEOLI, S. W.		
Evaluation of British and Canadian conductive rubber heating elements for handwear: Preliminary report [AD-A052826]	p0093 N79-15637	
CAVALLI, D.		
Discrete-time pilot model	p0088 N79-15601	
Discrete time modeling of heavy transport plane pilot behavior	p0118 N79-17508	
CERRETELLI, P.		
Oxygen affinity of blood in altitude Sherpas	p0268 A79-47854	
CHAHINE, R. A.		
The evolutionary pattern of exercise-induced ST segment depression	p0251 A79-44166	
CHAMBERS, J. A.		
Development of an electrical energy converter for circulatory device [PB-286738/0]	p0111 N79-16545	
CHAMBERS, W. S.		
AWAVS, a research facility for defining flight trainer visual system requirements	p0062 A79-18207	
CHANG, S.		
Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide	p0162 A79-29938	
CHANG, T.-C.		
Studies on thermoregulation in the rat	p0162 A79-30019	
CHAPEL, P. G.		
Extended duration orbiter life support system options [ASHE PAPER 78-ENAS-31]	p0008 A79-12580	
CHAPMAN, D. K.		
Importance of temperature control for REPLEX, a biological experiment for Spacelab 1	p0230 A79-41716	
CHAPMAN, P. K.		
Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176]	p0099 A79-21273	
CHAPMAN, R. W.		
The effects of brain ischemia on the control of breathing in unanesthetized goats	p0190 N79-23624	
CHAPPELLE, E. W.		
Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1]	p0076 N79-14750	
CHATTERJEE, I.		
Electromagnetic absorption in a multilayered model of man	p0226 A79-40650	
CHATTERJEE, P. C.		
Effects of partial sleep deprivation on psychological performance and behaviour	p0200 A79-37130	
Design, fabrication and utility of a flight oriented performance test	p0271 A79-49728	
Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease	p0272 A79-49731	
CHATTERJEE, J. C.		
Electrocardiographic abnormalities in Air Force personnel	p0182 A79-33191	
Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease	p0272 A79-49731	
CHELLAPPA, V.		
Human error accidents - Some case studies	p0183 A79-33193	
CHEN, W.		
Visually estimating workpiece pose in a robot hand using the feature points method	p0269 A79-48018	
CHEN, S.-H.		
Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria	p0233 A79-42448	
CHEO, P. C.		
Mechanism of plant virus inactivation in soil injected with municipal wastewater and treatment plant sludges [PB-287012/91]	p0107 N79-16513	
CHEREDNICHENKO, O. B.		
Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range	p0188 A79-35363	
Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye	p0301 A79-53163	
CHERENKOVA, L. V.		
Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems	p0043 A79-14371	
CHEREPAKHIN, M. A.		
Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man	p0192 N79-23634	
CHERKASHINA, M. G.		
Functional outcomes of prosthetic cardiac valve replacement	p0076 N79-14746	
CHERKASOV, O. A.		
A method of evaluating the pupillary reaction to vestibular stimuli	p0016 N79-10717	
CHEREMNYKH, P. A.		
Effect of infra-low-frequency magnetic fields on cell division	p0173 N79-20739	
CHEREN, Y.-F.		
Studies on thermoregulation in the rat	p0162 A79-30019	

- CHERNOFF, B.**
Effects of uncertainty on manual tracking performance
p0086 N79-15592
- CHERNUKH, A. M.**
A complex system for planning scientific medical research
p0078 N79-14761
- Problem-oriented program approach to planning and management of medicine
p0078 N79-14762
- CHERNYAKOV, G. M.**
Dynamics of impairment of pilot performance in the presence of hypoxia
p0073 N79-14724
- CHERNYAKOV, I. M.**
Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth
p0244 N79-27826
- Pneumotachographic distinctions of external respiration in man in the presence of excess intrapulmonary pressure on ground level and at high altitudes
p0245 N79-27827
- CHESSON, R. C.**
Spacelab's payload specialists, their selection and duties on-board
p0226 A79-40720
- CHESTUKHIN, V. V.**
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting
p0127 A79-24634
- Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system
p0245 N79-27831
- Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood
p0311 N79-33797
- CHEUNG, A. Y.**
The Physical Basis of Electromagnetic Interactions with Biological Systems [NEW-PUB-FDA-78-8055]
p0081 N79-15551
- Electric field measurements within biological media
p0083 N79-15562
- CHEVALERAUD, J.-P.**
Sensory illusions - The ophthalmologist's point of view
p0255 A79-46595
- CHEVALIER, P. A.**
Distribution of regional volumes and ventilation in excised canine lobes
p0236 A79-43703
- CHIANTA, M. A.**
Heat transfer principles in personal protection applications
p0043 A79-14405
- Thermal conduction effects in human skin
p0265 A79-47329
- Thermal conduction effects in human skin. 1: Experimental data acquisition [AD-A068479]
p0259 N79-28871
- Thermal conduction effects in human skin. 3: Influence of epidermal thickness and exposure time [AD-A068481]
p0259 N79-28872
- CHIEL, H. J.**
Low tryptophan diet decreases brain serotonin and alters response to apomorphine
p0226 A79-40672
- CHIGOLEV, V. V.**
Physiologicohygienic and ergonomic aspects of Salut 6 cosmonauts extravehicular activity /EVA/
p0303 A79-53486
- CHILD, J. E.**
Development of an objective grading system along with procedures and aids for its effective implementation in flight [AD-A071106]
p0318 N79-33846
- CHILES, E. D.**
Time-sharing ability in complex performance: An expanded replication [FAA-AM-78-33]
p0145 N79-18591
- CHILES, W. D.**
Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance
p0127 A79-24635
- Measurement and scaling of workload in complex performance
p0164 A79-30659
- The measurement and scaling of workload in complex performance [FAA-AM-78-34]
p0125 N79-17558
- Laboratory performance during acute intoxication and hangover [AD-A069373]
p0314 N79-33820
- CHILLAG, H.**
Tracking in two dimensions as a function of dimension priorities and tracking difficulty
p0036 A79-13193
- CHIOU, W. C.**
Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight
p0152 N79-19649
- CHISUM, G. T.**
Laser eye protection for flight personnel
p0135 A79-27555
- Laser eye protection for flight personnel, volume 1 [AD-A057417]
p0034 N79-11747
- CHITORE, D. S.**
Heat transfer and temperature distribution in the human body
p0041 A79-13612
- Simulation and control of a human temperature regulation system
p0041 A79-13613
- CHIZHOV, S. V.**
Utilization of the wastes of vital activity [NASA-TM-75410]
p0177 N79-21768
- Microflora of water reclaimed in sealed compartments
p0193 N79-23638
- Effects of different values of urine pH during long-term storage on microflora composition
p0194 N79-23643
- Quality of water reclaimed from urine as related to pH of initial product
p0313 N79-33807
- CHOU, C. K.**
Microwave and RF dosimetry
p0083 N79-15561
- CHOUDHURY, A. B.**
Delayed effects of alcohol ingestion on + Gz tolerance
p0272 A79-49730
- CHRIST, R. E.**
Four years of color research for visual displays
p0039 A79-13210
- CHRISTISON, G. W.**
Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression
p0186 A79-34284
- CHU, Y. Y.**
Pilot decision making in a computer-aided flight management situation
p0093 N79-15633
- CHUI, L. A.**
COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers
p0024 N79-11679
- CHURCH, H.**
Time-sharing is not a unitary ability [AD-A056632]
p0019 N79-10739
- CHURCHILL, E.**
Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024]
p0032 N79-11734
- Statistical considerations in man-machine designs
p0033 N79-11743
- CHURCHILL, T.**
Editing procedure for anthropometric survey data [AD-A060393]
p0093 N79-15639
- Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600]
p0290 N79-31939
- CIAVARELLI, A. P.**
Air Combat Maneuvering Range /ACMR/ - Has operational performance measurement entered a Golden Age
p0064 A79-18221
- CLARK, B.**
Vestibular influences on other sensory and motor processes
p0094 N79-15893
- CLARK, B. C.**
Solar-driven chemical energy source for a Martian

biota		
CLARK, C. E.	p0254 A79-46464	
Helmet weight simulator [NASA-CASE-LAR-12320-1]	p0223 N79-25761	
CLARK, H. B.		
Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat	p0169 N79-20712	
CLARK, S. P.		
A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study	p0059 N79-13719	
[PB-284681/4]		
A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices	p0059 N79-13720	
[PB-284682/2]		
CLARKE, L. K.		
Cardiac changes during behavioral stress in dogs	p0200 A79-36575	
CLARKE, M. J.		
A study of the available evidence on duration effects on comfort and task proficiency under vibration	p0254 A79-46399	
CLAXTON, L.		
Biomedical data validation through an on-line computer system	p0057 N79-13700	
[PB-285249/9]		
CLEARBY, S. F.		
Survey of microwave and radiofrequency biological effects and mechanisms	p0082 N79-15552	
CLEGG, J. S.		
Interfacial and intracellular water: Expected anomalies in dielectric properties	p0082 N79-15558	
CLELAND, E. L.		
Gas diffusion liquid storage bag and method of use for storing blood	p0076 N79-14749	
[NASA-CASE-NPO-13930-1]		
CLEMENT, J.		
Follow-up and transversal study of vital capacity and FEV sub values among personnel of the Belgian Army forces	p0028 N79-11706	
CLEVENSOW, S. A.		
Discomfort criteria for single-axis vibrations		
[NASA-TP-1422]	p0196 N79-23662	
Effect of helicopter noise on passenger annoyance		
[NASA-TM-80106]	p0241 N79-26782	
CLOUGHERTY, E. V.		
Protective clothing and equipment for firefighters: Current standards and practices		
[PB-286990/7]	p0113 N79-16557	
COATES, G.		
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression		
	p0185 A79-33806	
COBLENTZ, A.		
The use of biostereometry in helicopter cockpit design		
	p0150 N79-19629	
COCHRANE, L. A.		
Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations		
	p0266 A79-47334	
COCKRELL, J. T.		
Evaluation of four target-identification training techniques		
[AD-A061175]	p0123 N79-17548	
COECKELENBERGH, Y.		
An approach to the origin of self-replicating system. I - Intermolecular interactions		
	p0204 A79-37948	
COEHLO, B. A.		
Aeromedical aspects of flying training with special reference to instructor pupil relationship		
	p0201 A79-37139	
COPFER, C. H.		
Improved airline-type supplied-air plastic suit		
[DPSPU-78-30-12]	p0282 N79-30943	
COGAN, A. I.		
The relationship between the apparent vertical and the vertical horopter		
	p0225 A79-40186	
COHEEN, S. C.		
Raman spectroscopy of biological membranes and other biological systems		
	p0141 N79-18559	
COHEN, G. H.		
Using color substitution pupil response to expose chromatic mechanisms		
	p0265 A79-47116	
COHEN, J.		
Studies of metabolism, function and mechanism of destruction of red cells		
[AD-A072040]		
	p0315 N79-33828	
COHEN, M. V.		
Effect of exercise on collateral development in dogs with normal coronary arteries		
	p0067 A79-18960	
COLAVITA, F. B.		
A further investigation of visual dominance		
	p0186 A79-33949	
COLE, P.		
Development of techniques to enhance man/machine communication		
[NASA-CR-157886]		
	p0032 N79-11730	
COLE, R.		
Human factors design criteria for transilluminated displays		
	p0036 A79-13187	
COLER, C. R.		
Speech as a pilot input medium		
	p0119 N79-17519	
COLIN, J.		
The physiologist's view of sensory illusions		
	p0255 A79-46597	
Paul Bert		
[NASA-TM-75599]		
	p0055 N79-13687	
COLLEWIJN, H.		
Optokinetic reactions in man elicited by localized retinal motion stimuli		
	p0304 A79-54251	
COLLIGNON, R.		
Risks from various products used in paint spraying		
[BLL-RTS-11499]		
	p0142 N79-18569	
COLLINS, W. E.		
Effects of congenar and noncongenar alcoholic beverages on a clinical ataxia test battery		
	p0273 A79-49984	
Effects of congenar and noncongenar alcoholic beverages on a clinical ataxia test battery		
[AD-A069375]		
	p0314 N79-33819	
Laboratory performance during acute intoxication and hangover		
[AD-A069373]		
	p0314 N79-33820	
COLLURA, T. F.		
Synchronous brain evoked potential correlates of directed attention in humans		
	p0110 N79-16537	
COLLYER, S. C.		
AWAVS, a research facility for defining flight trainer visual system requirements		
	p0062 A79-18207	
COLOMBO, G. V.		
Microbial Check Valve for Shuttle		
[ASME PAPER 78-ENAS-27]		
Water system microbial check valve development		
[NASA-CR-151843]		
	p0008 A79-12576	
	p0032 N79-11733	
COMBS, S. P.		
Correlation of mechanism of extremity injury and aerodynamic factors in ejections from F-4 aircraft		
	p0284 N79-31904	
COMPANION, M. A.		
Task taxonomy - Two ignored issues		
	p0039 A79-13212	
COMPTON, J. R.		
The role of physical examinations and education in prospective medicine		
	p0026 N79-11694	
CONVERTINO, V. A.		
Effect of sodium and calcium ingestion on thermoregulation during exercise in man		
	p0163 A79-30624	
COOHLI, T. P.		
Wavelength dependence of ultraviolet-enhanced reactivation and induction of mammalian viruses		
[HEW-PUB-FDA-78-8059]		
	p0084 N79-15575	
COOKE, J. M. C.		
Beta-adrenoceptor antagonists: Central effects		
	p0027 N79-11702	
CORBETT, R.		
Cosmic ray effects on the eyes of rats flown on		

- COSMOS 782 p0022 N79-11669
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment R-207 p0024 N79-11678
- CORBIN, B. Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
- CORBIN, S. D. Telemetry of intracranial pressure p0227 A79-41400
- CORSO, G. M. Task taxonomy - Two ignored issues p0039 A79-13212
- COSTIN, P. A. T. Value and limits of the electrocardiogram in aviation medicine evaluations p0048 A79-15495
- COTE, D. O. Augmented feedback in adaptive motor skill training p0062 A79-18208
- COTTON, J. C. Universal airborne approach to pilot performance assessment [SAE PAPER 781009] p0130 A79-25891
- COWAN, M. J. Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits p0098 A79-21246
- COWGILL, D. W. Evaluation of the Sierra Engineering Company lightweight helmet [AD-A061799] p0157 N79-19689
- COX, A. Application of Fresnel lenses to virtual image display p0139 A79-28173
- COX, D. C. Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
- COX, R. H. The human micro-environment p0248 N79-27851
- CRAIG, A. Discrimination, temperature, and time of day p0161 A79-29718
- Nonparametric measures of sensory efficiency for sustained monitoring tasks p0161 A79-29719
- CRAIG, D. W. Synthetic aperture radar operator tactical target acquisition research p0037 A79-13202
- CRAMPTON, G. H. Motion sickness in cats - A symptom rating scale used in laboratory and flight tests p0202 A79-37711
- CRANDALL, E. D. Analysis of PCO_2 differences during rebreathing due to slow pH equilibration in blood p0067 A79-18958
- CREANE, C. R. Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4] p0051 N79-12698
- CRAWFORD, B. H. Multi-purpose digital switching and flight control workload [AD-A069606] p0281 N79-30934
- CRAWFORD, D. W. Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
- CREAS, B. W. Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216
- CRIBORN, C. O. Effect on mice of microwaves in the non-thermal intensity region. Respiration, rectal temperature and mental reaction [FOA-C-54021-H2(H6)] p0120 N79-17523
- CRISP, C. Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- CRISP, W. Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- CROCKER, T. T. Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
- CROCKETT, P. W. Biocompatible materials, volume 2. A bibliography with abstracts [NTIS/PS-78/0675/5] p0019 N79-10736
- Biological effects of laser radiation, volume 1. A bibliography with abstracts [NTIS/PS-79/0019/4] p0176 N79-21760
- CROCKETT, S. Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449] p0056 N79-13698
- CROSBY, E. C. Ruptured arteriovenous anomaly in a former woman astronaut candidate p0128 A79-24640
- CROSTON, R. C. User's instructions for the cardiovascular Walters model [NASA-CR-160204] p0217 N79-25721
- User's instructions for the high speed version of the cardiovascular exercise model [NASA-CR-160211] p0218 N79-25724
- CROW, R. H. Pattern of heat loss from a subject wearing CP temperate-climate combat clothing [AD-A057746] p0093 N79-15636
- CRUMBY, A. Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- CULLER, V. H. Multifunctional transducer [NASA-CASE-NPO-14329-1] p0219 N79-25737
- CUMMINS, J. Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
- CUMMINS, K. L. Estimation of nerve-bundle conduction p0154 N79-19672
- CUNDICK, R. H., JR. Clinical comparisons of pressure pulse and indicator dilution methods of determining cardiac output p0050 N79-12690
- CUNNINGHAM, D. A. Effects of endurance training on left ventricular dimensions in healthy men p0237 A79-43706
- CUNNINGHAM, F. Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- CUNNINGHAM, R. T. Robotic vision p0187 A79-34984
- CURRAN, P. H. Human factor engineering test and evaluation of the US Navy LAMPS helicopter system p0151 N79-19632
- CURRIE, J. S. Cerebral accident subsequent to G-force loading - A case report p0165 A79-30664
- CURRIER, G. Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449] p0056 N79-13698
- CURRY, B. E. The human as a detector of changes in variance and bandwidth p0117 N79-17496
- CURRY, E. P. Sensory mechanism modeling [AD-A069439] p0262 N79-29796
- CURTIS, J. T. Blood pressure variability of the individual in orthostatic testing p0265 A79-47328
- Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen p0027 N79-11699

- CVETKOVIC, V. S.**
Biped stability considerations with vestibular models p0066 A79-18287
- CYGMAROWICZ, T. A.**
System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1] p0013 N79-10694
- CYMERMAN, A.**
Evidence for increased intrathoracic fluid volume in man at high altitude p0305 A79-54266
- Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333] p0220 N79-25743
- CYNADER, M.**
The visual perception of motion in depth p0210 A79-39087
- CYRUS, M. L.**
Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
- CZEGLI, J.**
Quantitative aspects of the effect of weak interaction during chemical evolution p0204 A79-37959
- CZEISLER, C. A.**
Human circadian physiology: Internal organization of temperature, sleep-wake and neuroendocrine rhythms monitored in an environment free of time cues p0154 N79-19670
- CZELUSIWIAK, J.**
On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei p0253 A79-45640
- CZERWINSKI, M. G.**
Application of pattern recognition to ultrasonic tissue characterization p0194 N79-23647
- D**
- DACANAY, S.**
Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
- DACCARDI, R. J.**
Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772
- DAHL, A. O.**
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration p0229 A79-41704
- DALKEY, N.**
Human health damages from mobile source air pollution: A delphi method, volume 1 [PB-288319/7] p0145 N79-18585
- Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2 [PB-288320/5] p0145 N79-18586
- DANEEH, A. A. H.**
Observability of electrical heart activity studied with singular value decomposition [TH-78-E-81] p0144 N79-18584
- DAMOS, D.**
Development and transfer of timesharing skills p0035 A79-13184
- A quasi-linear control theory analysis of timesharing skills p0115 N79-17479
- DANA, W.**
Joint testing of the RAF high altitude protective ensemble p0044 A79-14434
- DANA, W. J.**
Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
- DANCER, A.**
Startle reactions to simulated sonic booms - Influence of habituation, boom level and background noise p0097 A79-20502
- DANIELS, S.**
Detection of bubbles in decompression sickness p0041 A79-13573
- DANIELS, W. L.**
Physiological effects of a military training program on males and females [AD-A062936] p0220 N79-25744
- DANILOV, L. N.**
The role of lesser circulation hemodynamic changes in pulmonary gas exchange p0300 A79-53066
- DANNEBURG, E.**
A study of pilot/observed interaction in aligning a helicopter with a target [DLR-FB-79-04] p0283 N79-30945
- DANNHAUS, D. H.**
Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189
- DARCEY, T. B.**
Methods for localization of electrical sources in the human brain and applications to the visual system p0314 N79-33815
- DARK, S. J.**
Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976 [FAA-AM-78-25] p0144 N79-18582
- DARK, V. J.**
Short-term memory factors in ground controller/pilot communication p0181 A79-32626
- DAROFF, R. B.**
Saccadic velocity characteristics - Intrinsic variability and fatigue p0165 A79-30663
- DAS, B. K.**
Electrocardiographic abnormalities in Air Force personnel p0182 A79-33191
- Comparative study of hypoxia and other non-invasive stress tests for evaluation of ischaemic heart disease p0272 A79-49731
- DASLER, R.**
Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- DAUNTON, B. G.**
Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574
- Motion sickness in cats - A symptom rating scale used in laboratory and flight tests p0202 A79-37711
- DAVID, B.**
Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation p0159 A79-28735
- DAVIES, C. T. H.**
The effects of different levels of heat production induced by diathermy and eccentric work on thermoregulation during exercise at a given skin temperature p0128 A79-24698
- Influence of skin temperature on sweating and aerobic performance during severe work p0305 A79-54268
- DAVIES, L. A.**
Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545
- DAVIS, A. W.**
Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976 [FAA-AM-78-25] p0144 N79-18582
- DAVIS, A. W., JR.**
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances p0127 A79-24628
- DAVIS, J. A.**
Anaerobic threshold alterations caused by endurance training in middle-aged men p0227 A79-41184
- DAVIS, J. G.**
A sample volume tracking unit for pulsed Doppler echocardiography p0200 A79-36869
- DAVIS, K.**
Adaptive estimation of information values in

- continuous decision making and control of advanced aircraft [AD-A069741] p0282 N79-30941
- DAVIS, S. H. The dependence of the CO₂ removal efficiency of LiOH on humidity and mesh size [ASME PAPER 78-ENAS-5] p0006 A79-12554
- DAVITASHVILI, O. Z. Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation p0159 A79-28735
- DAVYDICHENKO, L. S. Role of n-aminobenzoic acid in repairing UV and gamma radiation damage p0301 A79-53211
- DAVYDOV, B. I. The time parameter in exposures to microwave radiation p0105 A79-24419
- Time parameter in microwave irradiation p0277 A79-50694
- DAVYDOV, G. A. Energy expenditures of man during long exposure to a periodically changing atmosphere p0312 N79-33799
- DAVYDOV, I. V. Psychological training - One of the most important factors of enhancing the safety of space flights [IAF PAPER 79-A-24] p0303 A79-53426
- DAVYDOVA, N. A. Effects of LBNP on catecholamines and adrenal cortex p0110 N79-16532
- DAWSON, C. A. Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia p0277 A79-50905
- DAY, C. N. AAA gunnermodel based on observer theory p0087 N79-15594
- DAYHOFF Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- DAYHOFF, M. O. The point mutation process in proteins p0205 A79-37972
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- DE LEO, R. On the measurement of hazardous e.m. fields radiated through an aperture p0233 A79-42486
- DE VRIES, H. A. Time course of O₂-pulse during various tests of aerobic power p0297 A79-52024
- DE WAARD, J. Spacelab's payload specialists, their selection and duties on-board p0226 A79-40720
- DEAL, D. W. Modeling heat transfer through human skin subjected to high external temperatures p0102 A79-23782
- DEAL, P. H. Characterization of a novel extremely alkalophilic bacterium p0004 A79-11950
- DEBONIS, J. W. Visual workload of the copilot/navigator during terrain flight p0038 A79-13206
- DECKER, P. Evolution in open systems - Acquisition and conservation of information in bioids p0207 A79-37987
- Inverse assimilation - A general principle of evolution of planetary surfaces p0207 A79-37989
- DEDECKER, E. A. M. Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart p0239 N79-26766
- Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart p0239 N79-26767
- DEGROOT, S. Human factors aspects of low light level television and forward looking infrared sensor displays. 1: A feasibility study of scaled subjective complexity of still scenes applied to computer image generation [AD-A058938] p0058 N79-13715
- DEGTIAR, U. N. The effect of microwave fields on muscle oxygen pressure and temperature in animals previously adapted to hypoxia p0296 A79-51116
- DEGYAREV, V. A. Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- DEHART, R. L. Evaluation of cardiac risk and subject response to ameliorative efforts p0031 N79-11723
- DERLEVA, N. The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs [IAF PAPER 78-51] p0002 A79-11221
- Biomagnetism and artificial magnetic stimulation of living structures [IAF PAPER 78-52] p0002 A79-11222
- DEL VECCHIO, R. J. Physiological aspects of flight p0134 A79-27298
- DELAHAIVE, J. P. Radiological examination of the Rachis and fitness for employment as a helicopter pilot p0151 N79-19634
- Vertebral pains in helicopter pilots p0153 N79-19656
- DELEMOS, S. Time-sharing is not a unitary ability [AD-A056632] p0019 N79-10739
- DELLOSSO, L. P. Saccadic velocity characteristics - Intrinsic variability and fatigue p0165 A79-30663
- DELOISON, Y. The use of biostereometry in helicopter cockpit design p0150 N79-19629
- DELPOUX, M. Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
- DELUCIEU, A. G. Workload and the certification of helicopters for IFR operation [AD-A072758] p0318 N79-33850
- DEMIDA, B. F. Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement p0110 N79-16534
- DEMIN, N. N. Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite p0299 A79-52475
- DEMING, J. W. Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
- DEMPSEY, T. K. Discomfort criteria for single-axis vibrations [NASA-TP-1422] p0196 N79-23662
- DENNISTON, J. C. Evidence for increased intrathoracic fluid volume in man at high altitude p0305 A79-54266
- Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715

- The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212] p0056 N79-13694
- DEPAOLA, D. P. The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (ENR) p0018 N79-10733
- DEROCHER, W. L., JR. Computer aided control of a mechanical arm p0275 A79-50334
- DEROSHIA, C. W. Comparison of circadian rhythms in male and female humans p0004 A79-11947
- DESOUZA, C. Intelligence p0095 N79-15896
- DESTIGUER, D. The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use p0184 A79-33638
- DETERING, F. Mechanics of breathing during graded exercise measured with the bodyplethysmograph p0029 N79-11709
- DEUTSCH, S. Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
- BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft [NASA-TM-58217] p0261 N79-29784
- DEVER, J. Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4] p0241 N79-26780
- DEVINCENZI, D. L. Planetary protection guidelines for Outer Planet missions p0005 A79-12511
- DHAM, S. K. Influence of Beta-Blockade on asymptomatic ST-T wave changes - A follow up study p0201 A79-37137
- DIDIER, A. The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases p0256 A79-46600
- DIDNER, R. S. Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0029 N79-11714
- DIECKHUES, B. Perceptual delay - A consequence of metacontrast and apparent motion p0035 A79-13183
- DIETERLY, D. L. The physiological significance of light for human beings [RAE-LIB-TRANS-1976] p0077 N79-14757
- DIETZ, A. Team performance - A model for research p0065 A79-18227
- DILLARD, C. J. The significance of rhythm disturbances in asymptomatic persons p0027 N79-11698
- DIMANESCU, M. D. Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation p0067 A79-18965
- DINABURG, A. D. Coma recovery p0094 N79-15891
- DINNAR, U. The role of the neurohormone system of the hypothalamus in physiology and pathology p0251 A79-43835
- DINTENFASS, L. Bio-heat transfer processes, for human thermoregulatory and circulatory characteristics measurements p0304 A79-53536
- DIMYAK, G. S. Aggregation of red cells and blood viscosity as models of materials experimentation in the space environment [AIAA PAPER 79-0310] p0069 A79-19664
- DIVOR, A. R. Decreased activity of palladium catalyst during processing of excreta p0016 N79-10716
- DMITRIEV, V. G. Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and bovine growth hormones p0069 A79-19449
- DOBBLER, D. D. Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
- DOBROKHOVSKAYA, I. S. Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
- DOBROKHOVSKAYA, I. S. A study of cerebral blood flow in the goat. A. Correlations between the ventilatory and cerebrovascular responses to carbon monoxide inhalation. B. The dynamics of the cerebral blood flow response to hypoxia by frequency response analysis p0107 N79-16510
- DODSON, D. W. Mechanism for the regulation of human posture during movements of the foot p0276 A79-50651
- DOEBBEE, T. W. Man/terminal interaction evaluation of computer operating system command and control service concepts p0064 A79-18224
- DOERING, B. Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and bovine growth hormones p0069 A79-19449
- DOEWSCHUK, P. C. Analytical methods for biotechnological design of man machine systems: Work on system ergonomy [FB-28] p0242 N79-26787
- DOLOMAN, L. B. Microprocessor: Based prosthetic control [PB-286652/3] p0113 N79-16559
- DOLY, M. Possibilities and perspectives of tetrapolar transthoracic impedance rheophethysmography in noninvasive studies of hemo- and cardiodynamics p0296 A79-51118
- DOMAN, G. Mechanism of the formation of phosphenes by X-rays p0006 A79-12516
- DOMAN, G. Intelligence p0095 N79-15896
- DOMAN, J. Intelligence p0095 N79-15896
- DONCHIN, E. The event related cortical potential as an index of task workload p0038 A79-13208
- DONGES, E. The human operator in the control system: Linear models p0132 A79-26356
- DONINA, Z. A. A control theoretic model of driver steering behavior p0116 N79-17491
- DONNELL, M. L. A two level model of human steering behavior in a motor vehicle [FB-27] p0197 N79-24657
- DONNELL, M. L. Toxicity of oxygen mixed with helium p0245 N79-27829
- DONNELL, M. L. System operability - Concept and measurement in test and evaluation p0062 A79-18204

- DORFMAN, P. W.
Speed and load stress as determinants of performance in a time sharing task
p0068 A79-18999
- DOROFEEV, G. I.
Cyclic nucleotides and adaptation of the organism
p0133 A79-26500
- DOROKHOVA, B. R.
Effects of hyperhydration on human endurance of orthostatic and LBNP tests
p0072 N79-14721
- Fluid-electrolyte metabolism in the crew of Salyut-4
p0311 N79-33792
- DOROSHEV, V. G.
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4
p0072 N79-14718
- DOST, F. B.
Metabolism of hydrazine
[AD-A062251]
p0169 N79-20716
- DOTY, K. L.
Computer augmented manual control of remote manipulators
p0269 A79-48019
- DOUCHA, J.
Experiment Chlorella 1 on board of Salyut 6
[IAF PAPER 78-53]
p0003 A79-11223
- DOWD, P. J.
Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft
p0236 A79-43675
- DOWLING, J.
Radar observation of insects: Mosquitoes
p0148 N79-19600
- DOYLE, R. L.
Acute toxicity of a number of chemicals of interest to the Air Force
[AD-A067313]
p0220 N79-25742
- DRAECK, P. H.
Early diagnosis for decompression sickness. Changes in the blood found shortly after decompression. Part 2: Experiments on rats [MBL-1978-7]
p0120 N79-17524
- DRAKE, G. A.
A preliminary toxicological study of silastic 386 foam elastomer: catalyst [LA-7366-MS]
p0071 N79-14714
- DRESEL, J. D.
The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight
p0038 A79-13204
- DRIGO, Y. A.
Utilization of the wastes of vital activity [NASA-TM-75410]
p0177 N79-21768
- DRINKWATER, B. L.
Response of women mountaineers to maximal exercise during hypoxia
p0234 A79-43201
- DRONiou, J.
Mitral prolapse and acceleration
p0103 A79-23951
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His
p0103 A79-23955
- Pneumothorax and flight personnel
p0103 A79-23956
- Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs
p0028 N79-11707
- Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles
p0030 N79-11716
- The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers
p0030 N79-11718
- DROST-HANSEN, W.
Interfacial and intracellular water: Expected anomalies in dielectric properties
p0082 N79-15558
- DRUZGALSKI, C. K.
Techniques of cumulative quantitative characterization of the thorax using audiosonic methods
p00240 N79-26769
- DUBOIS, A. B.
Fluid shifts during initial phase of immersion diuresis in man
p0185 A79-33804
- DUBOIS, M. F. W.
Optokinetic reactions in man elicited by localized retinal motion stimuli
p0304 A79-54251
- DUBOSE, D.
Increased survival in experimental dog heatstroke after reduction of gut flora
p0266 A79-47335
- DUDKIN, V. E.
Atlas of the dose characteristics of external ionizing radiation /Handbook/
p0098 A79-20669
- DUDKIN, V. Y.
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582]
p0071 N79-14711
- DUDNIKOV, V. V.
Evaluation of physiological indices during preflight medical examination of pilots
p0188 A79-35138
- DUKET, S. D.
Modeling and analysis using SAINT - A combined discrete/continuous network simulation language
p0004 A79-11480
- DULIEU, H. L.
Biological study of tobacco seeds flown in the joint Apollo-Soyuz test-project
p0006 A79-12519
- DUMANSKIY, I. D.
Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field
p0074 N79-14737
- Dependence of the functional activity of liver mitochondria on microwave radiation
p0075 N79-14741
- DUMELIN, E. E.
Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation
p0067 A79-18965
- DUNCAN, J. R.
Computer simulation of thermoregulatory responses to heat stress - A future work design and training tool
p0037 A79-13196
- DUNN, C. D. R.
Erythropoietic effects of space flight
p0231 A79-42193
- Use of a computer model in the understanding of erythropoietic control mechanisms [NASA-CR-160201]
p0217 N79-25718
- DUNN, R. S.
Helicopter commands at the touch of a hand [AHS 79-13]
p0270 A79-49066
- DUPUIS, H.
The influence of mechanical vibration and noise on the peripheral blood circulation at skin level [RAE-LIB-TRANS-1980]
p0084 N79-15578
- Human exposure to mechanical vibration at lying posture in the ambulance helicopter UH-1D
p0149 N79-19617
- DUPUY, O.
Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image
p0100 A79-22771
- DURET, J.
Mitral prolapse and acceleration
p0103 A79-23951
- DURET, J. C.
Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His
p0103 A79-23955
- Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles
p0030 N79-11716
- The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers
p0030 N79-11718
- DURNEY, C. H.
An empirical formula for broad-band SAR

calculations of prolate spheroidal models of humans and animals p0278 A79-51015

DURNOVA, G. N.
Effects of space flight on course of radiation lesions in rat lymphoid organs p0107 N79-16516

DUTKEVICH, I. G.
Effects of laser radiation on morphology of peripheral blood and bone marrow under experimental and clinical conditions p0071 N79-14710

DYGIN, V. P.
Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709

E

EARLES, J. A.
A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983] p0308 N79-32833

ECKERLEY, J. S.
A study of noninvasive blood pressure measurement techniques p0294 A79-51036

ECKERMANN, P.
Problem of modeling the mechanism of heart contraction p0275 A79-50287

ECKERT, H.
Spacelab environmental control/life support system /ECLS/ for life science experiments [IAF PAPER 78-59] p0003 A79-11225

Medical characteristics of the Spacelab life support system [DGLR PAPER 78-130] p0041 A79-14082

ECKER, R.
Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight p0047 A79-15491

Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins p0287 N79-31925

ECONOMOS, A. C.
Analysis of population mortality kinetics with application to the longevity followup of the Navy's '1,000 aviators' p0234 A79-43207

Quantitative analysis of mating behavior in aging male Drosophila Melanogaster p0252 A79-44799

EDWARDS, B. J.
Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844

EDWARDS, R. J.
Core temperature measurement in man p0010 A79-12862

EFFERT, S.
Mechanics of breathing during graded exercise measured with the bodyplethysmograph p0029 N79-11709

EGAMI, F.
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums p0203 A79-37935

Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium p0204 A79-37964

Polymers produced by heating an amino acid mixture in sea water enriched with transition elements p0254 A79-46461

EGGEMEIER, F. T.
Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216

Life cycle costing of simulated vs actual equipment for intermediate maintenance training p0064 A79-18217

EGLINTON, G.
A biogeochemical study of the Abu Dhabi algal mats

- A simplified ecosystem p0132 A79-26373

EGOLP, D. P.
A mathematical scheme for predicting the electro-acoustic frequency response of hearing aid receiver-earmold-ear systems p0154 N79-19673

EGOROV, A. D.
Medical control in prolonged space flights [IAF PAPER 78-63] p0003 A79-11226

EGOROV, I. A.
Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425

3'-5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426

Metal porphyrins in pre-Cambrian deposits as a probable evidence for early photosynthesis p0165 A79-30695

EICHBERG, J.
Prebiotic condensation reactions using cyanamide p0203 A79-37932

EIKEMEIER, K. D.
Balance training of the equilibrium organ and its effect on flight strategy p0242 N79-27074

EISENHAN, J.
Isolation of a shock-induced circulating cardiodepressant substance p0257 A79-46967

EKBLOM, B.
Physical performance and peak aerobic power at different body temperatures p0221 A79-36046

EL-MAHDI, A. M.
Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051] p0017 N79-10728

ELAD, A.
Thermal bounds to the time of stay of human beings in enclosures p0231 A79-41770

ELANGOVAN, P. T.
Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300

ELDREDGE, D.
RNAV procedural turn anticipation techniques experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi offset tracking procedures [AD-A060501] p0085 N79-15583

ELIVANOV, V. A.
Significance of the vibration component to the deleterious effect of impact accelerations p0312 N79-33801

ELIZONDO, R. S.
Thermoregulation in Macaca mulatta - A thermal balance study p0133 A79-27101

ELKINS, W.
Evolution of space suit technology [IAF PAPER 79-92] p0302 A79-53293

ELLESTAD, M. H.
Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression p0186 A79-34284

Predictive accuracy of Q-X/Q-T ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing p0225 A79-40464

ELLiot, L.
Responses of crown gall tissue to the space environment: Tumor development and anatomy p0020 N79-11654

ELLIS, J. W., JR.
Cerebral accident subsequent to G-force loading - A case report p0165 A79-30664

ELLIS, S.
In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400

Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and

- bovine growth hormones p0069 N79-19449
- Studies on the bioassayable growth hormone-like activity of plasma p0267 A79-47848
- Effects of space flight on plasma and glandular concentrations of pituitary hormones p0021 N79-11664
- Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment p0022 N79-11667
- ELMORE, O. F.
Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
- ELSWORTH, C.
The effects of pilot age, lighting, and head-down time on visual accommodation [AD-A064912] N79-25747
- ELSWORTH, C. L.
Windshield quality and pilot performance measurement utilizing computer-generated imagery p0137 A79-28165
- ELZEAR, A.
A description of the recent neuropsychological selection of pilots for land forces light aircraft p0151 N79-19633
- EM, V. S.
The problem of optimally fast response as solved by the nerve cell p0166 A79-31179
- EMELIANOV, V. N.
Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
- Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
- EMERY, J. C.
Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
- EMURIAN, C. S.
Methodological and operational aspects of programmed environment research [AD-A068587] p0289 N79-31936
- EMURIAN, H. H.
Methodological and operational aspects of programmed environment research [AD-A068587] p0289 N79-31936
- ENDO, S.
Motion cue effects on human pilot dynamics in manual control p0119 N79-17514
- ENEVOLDSON, E.
Joint testing of the RAF high altitude protective ensemble p0044 A79-14434
- ENEVOLDSON, E. K.
Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
- ENG, W. G.
Survey on eye comfort in aircraft. I - Flight attendants p0165 A79-30665
- ENGEBRETSON, G.
Intelligence p0095 N79-15896
- ENGIN, A. E.
Passive resistive torques about long bone axes of major human joints p0298 A79-52283
- ENOMOTO, S.
Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere p0203 A79-37937
- EPHRATH, A. R.
Effects of target motion and image on AAA tracking p0046 A79-14969
Visual cues in manual tracking of simulated targets p0103 A79-23792
Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
Effects of uncertainty on manual tracking performance
- EPFER, J. L.
Mutagenic components of alternate energy sources [CONF-780636-8] p0280 N79-30923
- EPPS, D. E.
Prebiotic condensation reactions using cyanamide p0203 A79-37932
- ERGUN, D. L.
Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- ERICKSON, R. A.
Line criteria in target acquisition with television p0068 A79-18997
- ERIKSEN, B. A.
Target redundancy in visual search - Do repetitions of the target within the display impair processing p0299 A79-52540
- ERIKSEN, C. W.
Target redundancy in visual search - Do repetitions of the target within the display impair processing p0299 A79-52540
- ERMAKOVA, I. I.
Regulation and efficiency of sweating in man /Mathematical modeling/ p0097 A79-20622
- ERSHOVA, L. K.
Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves p0188 A79-35917
- ERWIN, D. E.
The importance of providing stereoscopic vision in training for nap-of-the-earth /NOE/ flight p0062 A79-18206
- ESKEHNAZI, R.
Robotic vision p0187 A79-34984
- ESSER, A. F.
Temperature-dependent morphological changes in membranes of Bacillus stearothermophilus p0005 A79-12475
- ESSIOUX, H.
A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures p0104 A79-23958
- ETAEREDGE, J.
Aircrew personnel restraint subsystems definition of deficiencies and requirements [AD-A058995] p0053 N79-12711
- EULER, D. E.
Role of skin temperature in the control of sweating p0277 A79-50907
- EVANS, D. A.
Disorientation in Royal Naval helicopter pilots p0152 N79-19648
- EVANS, J. H.
A failure criterion for human, vertebral, cancellous bone p0285 N79-31912
- EVANS, J. M.
Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728
- Modification of cardiac function by synchronized oscillating acceleration p0278 A79-50908
- Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
- The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845
- EVANS, J. W.
Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
- RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553

EVANS, T. C., JR.
 Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-284686/3] p0052 N79-12703
 Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0] p0085 N79-15581
EVREINOVA, T. N.
 Coacervate drops - Primitive forms of precells p0204 A79-37962
EWART, R. B.
 Visual system for the Boom Operator Part Task Trainer p0137 A79-28162
EWING, C. L.
 Medical qualification procedures for hazardous-duty aeromedical research p0026 N79-11695
 Multiaxis dynamic response of the human head and neck to impact acceleration p0284 N79-31906
 Transient intraventricular conduction defects observed during experimental impact in human subjects p0285 N79-31907
 Potential relationship between human central nervous system injury and impact forces based on primate studies p0286 N79-31919

F

FABER, J. H.
 Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715
FABRE, J.
 Pulmonary functional tolerance to ionizing radiation - An experimental study p0256 A79-46601
FABRESSE, F.
 Pneumothorax and flight personnel p0103 A79-23956
FABRIKANT, J. I.
 Effects on populations of exposure to low levels of ionizing radiation: Implications for nuclear energy and medical radiation [LBL-9084] p0316 N79-33833
 Health effects of low-level ionizing radiation [LBL-9018] p0316 N79-33834
FAITELBERG-BLANK, V. R.
 Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves p0188 A79-35918
FAJSZI, C.
 Quantitative aspects of the effect of weak interaction during chemical evolution p0204 A79-37959
FALCH, D. K.
 Pulmonary blood volume and interventricular circulation time in physically trained and untrained subjects p0128 A79-24700
PARAFONOV, N. S.
 Utilization of the wastes of vital activity [NASA-TM-75410] p0177 N79-21768
PARPAL, F.
 Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image p0100 A79-22771
PARRHI, L. E.
 Circulatory response to arterial hyperoxia p0221 A79-36048
 Cardiopulmonary readjustments in passive tilt p0277 A79-50901
PARRELL, D.
 Non-invasive information on the P-R segment of the cardiac cycle - An assessment of the clinical potential of the electric and magnetic methods p0295 A79-51045
PARRISH, R. O. P.
 A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4] p0059 N79-13719

A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720
PAULKNER, W. H.
 Prediction, evaluation, and specification of flying qualities by means of step target tracking p0088 N79-15604
 Error rate information in attention allocation pilot models p0115 N79-17483
 Prediction of pilot reserve attention capacity during air-to-air target tracking p0116 N79-17488
PAVERO, M. S.
 Public health considerations associated with a Mars surface sample return mission p0005 A79-12510
PAYTELBERG-BLANK, V. R.
 Effect of different doses of centimeter-band electromagnetic oscillations of biochemiluminescence of central nervous system and liver tissues p0172 N79-20738
PAYTELBERG, R. P.
 Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs p0312 N79-33803
PEDOBENKO, G. T.
 Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
PEDOROVICH, I. B.
 Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319
PEEBRER, C. E.
 A decision, monitoring and control model of the human operator applied to an RPV control problem [AD-A069880] p0282 N79-30939
 Development of human performance models for man-machine system simulation [AD-A069879] p0282 N79-30940
FEIGE, B.
 Initial training and retraining of technical agricultural flight personnel p0227 A79-41166
FEINSTEIN, B.
 The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission [AD-A063856] p0213 N79-24647
FEKE, G. T.
 Laser Doppler technique for measurement of eye movement p0233 A79-42450
FELDER, S. F.
 Intracocular pressure reduction and regulation system [NASA-TM-79187] p0260 N79-28881
FELDMAN, A. G.
 Central and reflex mechanisms of controlling movements p0251 A79-43950
FELDSTEIN, C.
 Multifunctional transducer [NASA-CASE-NPO-14329-1] p0219 N79-25737
 Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
FELLER, D. D.
 In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400
 Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C/14-/U-glucose in diabetic rats p0252 A79-44797
FENCL, V.
 Composition of cerebral fluids in goats adapted to high altitude p0277 A79-50902
 Composition of cerebral fluids in goats adapted to high altitude [AD-A070142] p0310 N79-33788

PERSONAL AUTHOR INDEX

POHEY, M. F.

- FENDER, D. H.**
Velocity precision in smooth pursuit eye movements
p0129 A79-25399
- FENDRICH, R.**
Smooth pursuit eye movements - Is perceived motion necessary
p0139 A79-28375
- FERRELL, W. R.**
Adaptive supervisory control of remote manipulation
p0046 A79-14987
- FERRIS, J. P.**
HCN did not condense to give heteropolypeptides on the primitive earth
p0133 A79-26542
- FESENKO, L. D.**
Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography
p0098 A79-21243
- FEUERMAN, E.**
Allergy to lanolin [BLL-RTS-11185]
p0142 N79-18570
- FICH, S.**
A catheter flow probe for measurement of left ventricular source parameters
p0274 A79-50108
- FILIPENKOV, S. N.**
Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/
p0303 A79-53486
- Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth
p0244 N79-27826
- FILIPPOV, M. M.**
Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography
p0098 A79-21243
- FILIPPOV, O. V.**
Problem-oriented program approach to planning and management of medicine
p0078 N79-14762
- Current status and prospects of continued refinement of planning and coordination of scientific medical research
p0078 N79-14765
- FINCH, W. L.**
A subhuman primate restraint system [AD-A069607]
p0279 N79-30915
- FINDLER, M. V.**
Multi-PIERRE - A learning robot system
p0066 A79-18425
- FINEBERG, M. L.**
The effects of ambient illumination, aircraft velocity and feedback on absolute distance judgments during simulated night nap-of-the-earth flight
p0038 A79-13204
- Quantifying operator preference during human factors test and evaluation
p0062 A79-18202
- FINKE, H.-O.**
Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection
p0162 A79-29763
- FINKELMAN, J. M.**
Conjoint effect of physical stress and noise stress on information processing performance and cardiac response
p0161 A79-29715
- FINNEGAN, J. P.**
Transfer of a computer-assisted instrument procedures trainer to flight
p0039 A79-13216
- FISCHER, E.**
The role of cognitive switching in head-up displays [NASA-CR-3137]
p0318 N79-33851
- FISCHER, J. R.**
Blood pressure variability of the individual in orthostatic testing
p0265 A79-47328
- Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen
p0027 N79-11699
- FISCHER, W. A.**
Medical technology transfer
p0048 A79-16138
- FISHER, A. B.**
Glucose metabolism in rat lung during exposure to hyperbaric O₂
p0221 A79-36047
- FISHER, H. D.**
The development of a digital video subtraction system for intravenous angiography
p0294 A79-51033
- FISHER, J. R.**
Reproducibility of human cardiovascular responses to orthostatic stress
p0030 N79-11720
- FITSNER, L. H.**
Process of search control of coordinated movement in man
p0166 A79-30701
- FITZGIBBON, G. M.**
Coronary atherosclerosis and fitness for flying
p0029 N79-11711
- FITZJERELL, D. G.**
Fluid and Electrolyte Balance model (FEB) [NASA-CR-160206]
p0211 N79-24633
- Design specification for the whole-body algorithm [NASA-CR-160226]
p0212 N79-24641
- Development of an hypothesis for simulating anti-orthostatic bed rest [NASA-CR-160200]
p0217 N79-25717
- Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm [NASA-CR-160232]
p0218 N79-25729
- Study report on guidelines and test procedures for investigating stability of nonlinear cardiovascular control system models [NASA-CR-160229]
p0219 N79-25734
- User's instructions for the whole-body algorithms [NASA-CR-160233]
p0219 N79-25735
- FITZPATRICK, E. L.**
Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749]
p0190 N79-22758
- FITZPATRICK, M.**
Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase 1 [PB-290328/4]
p0178 N79-21775
- FLANDROIS, R.**
Metabolic adrenergic changes during submaximal exercise and in the recovery period in man
p0305 A79-54267
- FLEMING, C.**
Ejection problems and injuries - Their causes, effects and treatments, and suggestions for preventive measures
p0267 A79-47338
- FLIEDNER, T. M.**
Cell biology basis for the life of an organism in the radiation field [ANL-TRANS-1152]
p0261 N79-29786
- FLINK, J. H.**
Mechanisms of deterioration of nutrients [NASA-CR-160128]
p0156 N79-19686
- FLION, A.**
Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force
p0290 N79-31945
- FLORIN, U.**
Value and limits of the electrocardiogram in aviation medicine evaluations
p0048 A79-15495
- FLUGEL, C. W.**
Test evaluation of space station ECLSS maintenance concepts [ASME PAPER 78-ENAS-43]
p0009 A79-12589
- FOFANOV, V. I.**
Prospects of using Japanese quail in biological life support systems
p0109 N79-16531
- Effect of combination of hypoxia and hypercapnia on survival of Japanese quail
p0194 N79-23641
- FOGLESONG, R. H.**
Modeling heat transfer through human skin subjected to high external temperatures
p0102 A79-23782
- POHEY, M. F.**
Food packages for Space Shuttle [ASME PAPER 78-ENAS-13]
p0007 A79-12562

- POLBERTH, O. G.**
Very-large-scale integration - What it means for technical systems and humans p0181 A79-32640
- POLIGUET, B.**
Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology p0256 A79-46603
- POLINSBEE, L. J.**
Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201
- POLLAND, E.**
Coronary calcification in the diagnosis of coronary artery disease p0226 A79-40465
- POLLENIUS, M.**
Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects p0297 A79-52023
- PONSECA, G. P.**
A biophysical model for evaluating auxiliary heating and cooling systems [ASME PAPER 78-ENAS-33] p0008 A79-12581
- FORSTER, L. D.**
Measurements in the laser irradiated eye [AD-A069842] p0315 N79-33825
- POSTER, W. D.**
Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0102 A79-23471
- POUDIN, L.**
Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- POWER, C. F.**
Photochemistry and enzymology of photosynthesis [COO-3326-70] p0239 N79-26763
- POWER, W. T.**
Simple models for the shuttle remote manipulator system [NASA-CR-151881] p0113 N79-16554
- FOX, J. I.**
Evolution of enzyme function - The coupled oscillator theory p0205 A79-37970
- FOX, S.**
The origin of life on earth - Recent studies p0134 A79-27335
- FRANCESCONI, R.**
Heat- and exercise-induced hyperthermia - Effects on high-energy phosphates p0266 A79-47332
- FRANCESCONI, R. P.**
Sustained operations and sleep deprivation - Effects on indices of stress p0009 A79-12859
- FRANCIS, K. T.**
Effect of water and electrolyte replacement during exercise in the heat on biochemical indices of stress and performance p0127 A79-24629
- FRANK, A.**
Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206 p0023 N79-11677
- FRANK, H. H.**
Anaerobic threshold alterations caused by endurance training in middle-aged men p0227 A79-41184
- FRASER, A. S.**
Water system virus detection [NASA-CASE-MSC-16098-1] p0013 N79-10693
- FRASER, M.**
Vehicle Steering control: A model of learning p0089 N79-15606
- FRAZER, R. E.**
Coupling apparatus for ultrasonic medical diagnostic system [NASA-CASE-NPO-13935-1] p0077 N79-14751
- Apparatus for endoscopic examination [NASA-CASE-NPO-14092-1] p0155 N79-19678
- FREEDY, A.**
Adaptive estimation of information values in continuous decision making and control of advanced aircraft [AD-A069741] p0282 N79-30941
- FREEMAN, B. A.**
The effects of ozone on human erythrocytes and phospholipid vesicles p0049 N79-12687
- FREGLY, M. J.**
Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold p0128 A79-24636
- Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- FREY, M. A. B.**
Systolic time intervals during combined hand cooling and head-up tilt p0135 A79-27554
- Cardiac response to whole-body heating p0165 A79-30661
- FRIEDAN, H. J.**
Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1] p0050 N79-12694
- FRIEDMAN, M.**
Hemodynamics in teenagers and asthmatic children during exercise p0133 A79-27102
- Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0028 N79-11704
- FRIEDMAN, P. J.**
Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269
- FRIEND, B. A.**
Conjoint effect of physical stress and noise stress on information processing performance and cardiac response p0161 A79-29715
- PRISBY, J. P.**
Texture contours can facilitate stereopsis by initiating vergence eye movements p0270 A79-48816
- PRISCH, G. D.**
A human body and crew station modelling system for motion studies p0287 N79-31922
- PRISCIA, D. A.**
Predictive accuracy of Q-X/Q-T ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing p0225 A79-40464
- PROEBERG, J. E.**
Task complexity and 24-hr performance patterns in morning and evening active subjects [FOA-C-52001-R6] p0122 N79-17537
- PROLOV, B. V.**
Psychophysiological forecasting of efficiency p0010 A79-12867
- PROZEL, V. A.**
Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength p0002 A79-10648
- FROST, E.**
Radar observation of insects: Mosquitoes p0148 N79-19600
- FROST, M. M.**
The development of a digital video subtraction system for intravenous angiography p0294 A79-51033
- PROWEIN, H. W.**
Effects of amphetamine on response selection and response execution processes in choice reaction tasks [IZP-1978-8] p0309 N79-32839
- FRY, G. A.**
The perceived direction of the binocular image p0104 A79-24069
- FRYER, T. B.**
The use of hybrid integrated circuit techniques in biotelemetry applications p0131 A79-26145
- Telemetry of intracranial pressure p0227 A79-41400
- An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424
- Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey

PERSONAL AUTHOR INDEX

GAYEVSKAYA, M. S.

- A long-range and long-life telemetry p0147 N79-19022
data-acquisition system for heart rate and
multiple body temperatures from free-ranging
animals
[NASA-TM-78590] p0239 N79-26762
- FUCHS, R. J.
The prediction of the existence or nonexistence of
coronary artery disease using routine clinical
laboratory measurement p0028 N79-11703
- FUJIHARA, O.
Measurements of pilot workload during low altitude
and high speed maneuvers of F-1 supersonic jet
fighter p0209 A79-38821
- FULD, K.
The equivalent background and retinal eccentricity
p0104 A79-24066
- FULGHAM, D. D.
Psychologists vs engineers p0132 A79-26499
- FULLER, P. H.
Killifish development in zero-G on COSMOS 782:
Fundulus experiment K-104 p0021 N79-11659
- FUNKHOUSER, G. E.
Effects of altitude and two
decongestant-antihistamine preparations on
physiological functions and performance
p0127 A79-24635
- Effects of propranolol on Time of Useful Function
(TUF) in rats
[AD-A068535/4] p0283 N79-31896
- FURRY, D. E.
Medical barofunction testing of aviators with
otorhinolaryngologic disease p0298 A79-52285
- PURST, A.
Two-week studies of survivors from exposures to
pyrolysis gases p0066 A79-18307
- PURUKAWA, S.
Systems identification and application systems
development for monitoring the physiological and
health status of crewmen in space
[NASA-CR-160235] p0212 N79-24642
- Study report on combining diagnostic and
therapeutic considerations with subsystem and
whole-body simulation
[NASA-CR-160231] p0213 N79-24644
- FUST, H. D.
Compatibility test of oxygen exposures in the
range of 2.2 to 2.8 bar absolute
[DLR-FB-78-10] p0280 N79-30925
- FUTERMAN, M. A.
Circadian rhythm of electrolyte urea in healthy
persons p0257 A79-46681
- G**
- GABEL, R. A.
Composition of cerebral fluids in goats adapted to
high altitude p0277 A79-50902
- Composition of cerebral fluids in goats adapted to
high altitude
[AD-A070142] p0310 N79-33788
- GAERTNER, K. P.
The determination of the operating range of a
twin-grip control yoke through biomechanical means
p0089 N79-15609
- GAERTNER, K.-P.
Ergonomic problems regarding the interactive touch
input via screens in onboard and ground-based
flight control p0061 A79-17695
- GAEVYI, M. D.
Self-regulation of cerebral circulation under
orthostatic influences p0221 A79-36098
- GAILLARD, G.
Mechanism of the formation of phosphene by X-rays
p0006 A79-12516
- GAINER, P. A.
Analysis of visual estimation of system state from
arbitrary displays p0317 N79-33843
- GALAKTIONOVA, G. V.
Effect of infra-low-frequency magnetic fields on
cell division p0173 N79-20739
- GALANTER, E.
Applications of two-parameter decision theories in
psychology
[AD-A059010] p0052 N79-12705
- GALLAGHER, R. R.
Evaluation of exercise-respiratory system
modifications and preliminary
respiratory-circulatory system integration scheme
[NASA-CR-160221] p0212 N79-24639
- Physiological system integrations with emphasis on
the respiratory-cardiovascular system
[NASA-CR-160230] p0213 N79-24643
- Investigations of respiratory control systems
simulation
[NASA-CR-160213] p0218 N79-25726
- Evaluation of exercise-respiratory system
modifications and integration schemes for
physiological systems
[NASA-CR-160223] p0219 N79-25733
- GALLE-TESSONNEAU, J.-R.
Psychosis in air force flight personnel during the
last 25 years p0103 A79-23957
- GALOSY, B. A.
Cardiac changes during behavioral stress in dogs
p0200 A79-36575
- GAMMELL, P. M.
Signal processing in ultrasound p0294 A79-51039
- GANDHI, O. P.
Electromagnetic absorption in a multilayered model
of man p0226 A79-40650
- Some recent results on the deposition of
electromagnetic energy in animals and models of
man p0083 N79-15563
- GANTI, T.
On the reality of extraterrestrial biogenesis
[IAF PAPER 78-A-51] p0003 A79-11344
- GARDNER, D. E.
The effects of H₂SO₄ on men and H₂SO₄ and O₃ on
laboratory animals p0141 N79-18354
- GARRETT, P. F., JR.
An interface evaluation of the XM-29 protective
mask and the AH-1S telescopic sight unit
[AD-A064203] p0190 N79-22764
- GASPARYAN, S. A.
The conception of the systems analytic approach to
planning and organization of medical scientific
research p0078 N79-14764
- GASSET, G.
Development capacity of artemia cysts and lettuce
seeds flown in Cosmos 936 and directly exposed
to cosmic rays p0127 A79-24632
- GAUBIN-BLANQUET, Y.
Radiobiological investigations in Cosmos 782 space
flight /Biobloc SP1 experiment/ p0006 A79-12518
- GAUBIN, Y.
Development capacity of artemia cysts and lettuce
seeds flown in Cosmos 936 and directly exposed
to cosmic rays p0127 A79-24632
- GAUDETTE, D.
Effects of space flight on plasma and glandular
concentrations of pituitary hormones p0021 N79-11664
- GAWORSKI, C. L.
Acute toxicity of a number of chemicals of
interest to the Air Force
[AD-A067313] p0220 N79-25742
- GAYEVSKAYA, M. S.
Protein fractions and enzymatic activity thereof
in the rat myocardium after the flight on
Kosmos-690 biosatellite p0014 N79-10700
- Changes in metabolism of soleus muscle tissue in
rats following the flight aboard the Kosmos-690
biosatellite p0108 N79-16518

Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite	p0244 N79-27823	Control of vertical position after flights aboard the Salyut-4 orbital station	p0311 N79-33793
GAZENKO, O. G. Space biology and medicine	p0132 A79-26344	GERASIMOV, A. M. Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia	p0165 A79-30696
Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite	p0299 A79-52475	GERATHEWOLD, S. J. Psychophysiological effects of aging: Developing a functional age index for pilots. 2: Taxonomy of psychological factors [FAA-AM-78-16]	p0054 N79-13685
Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/	p0303 A79-53486	Psychophysiological effects of aging: Developing a functional age index for pilots. 3: Measurement of pilot performance [FAA-AM-78-27]	p0123 N79-17546
Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487]	p0072 N79-14716	GERSHUNI, G. V. The sensory systems	p0042 A79-14369
Principal results of experiment with mammals onboard the Kosmos-782 biosatellite	p0073 N79-14726	GERSHZONN, G. Perpetual factors involved in performance of air traffic controllers using a microwave landing system	p0092 N79-15628
Problems of human adaption to spaceflight	p0157 N79-19985	GERZBERG, L. Quantitative flow estimation with transcutaneous Doppler ultrasound	p0295 A79-51042
Space biology and aerospace medicine, no. 2, 1979 [JPRS-73377]	p0190 N79-23627	GESCHWIND, I. I. Effects of space flight on plasma and glandular concentrations of pituitary hormones	p0021 N79-11664
Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body	p0192 N79-23628	GESELOWITZ, D. B. Magnetocardiography - An overview	p0274 A79-50107
Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station	p0243 N79-27819	GHISTA, D. B. Cardiovascular regulatory response to lower body negative pressure following blood volume loss	p0101 A79-23470
GAZIYEV, G. A. Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body	p0073 N79-14725	Computer design synthesis of a below knee-Syme prosthesis	p0251 A79-44300
Liberation of carbon monoxide by man when working in protective gear	p0076 N79-14748	Analyses for noninvasive monitoring of arterial blood pressure by /I/ phono cuff-sphygmomanometry, for discrete measurements and /II/ arterial ultrasonic imaging, for continuous measurements	p0294 A79-51037
Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research	p0109 N79-16528	Theoretical foundations of cardiovascular processes	p0304 A79-53531
GEBHARDT, U. A new application of LBNP to measure orthostatic tolerance before and after 0-G simulation /water immersion/ [IAF PAPER 79-87]	p0302 A79-53290	GIACCHINO, J. Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G	p0227 A79-41185
GEIS, G. S. Role of skin temperature in the control of sweating	p0277 A79-50907	GIBSON, S. F. Microbial load monitor [NASA-CR-160274]	p0243 N79-27815
GEISELHART, R. Study of crew task loading on the C-141A aircraft [AD-A057346]	p0034 N79-11746	GIBSON, T. M. Effect of induced cyclic changes of deep body temperature on task performances	p0202 A79-37708
GEISER, G. Petri nets as a modeling tool for discrete concurrent tasks of the human operator	p0088 N79-15600	Separation of the effects of raised skin and core temperature on performance of a pursuit rotor task	p0234 A79-43204
GEISLER, W. S. Evidence for the equivalent-background hypothesis in cones	p0232 A79-42233	Hyperventilation in aircrew - A review	p0235 A79-43212
GELLY, R. Psychological selection of payload astronauts	p0047 A79-15488	Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations	p0266 A79-47334
GENBACEV, O. The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs [IAF PAPER 78-51]	p0002 A79-11221	Prediction of body temperatures during exercise in flying clothing	p0273 A79-49989
GENIN, A. M. Principal results of experiment with mammals onboard the Kosmos-782 biosatellite	p0073 N79-14726	Effect on performance of cycling deep body temperature between 37.0 and 37.6 C	p0274 A79-49993
GENTILE, F. P. Computed axial tomography (CAT) [ISS-R-78/4]	p0262 N79-29791	GIDDENS, D. P. Disorder in pulsatile flow - Biomedical measurements with hot film, laser and ultrasound anemometers	p0210 A79-39509
GENTZLER, G. L., JR. Depth perception and manual control	p0038 A79-13207	GIEROWSKI, Z. Preliminary selection of candidates for space flights [IAF PAPER 79-83]	p0302 A79-53289
GEORGE, H. E. Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133]	p0189 N79-22755	GIESS, M. C. Genetic effects of balloon flight in Drosophila melanogaster	p0006 A79-12520
GEORGIYEVSKII, V. S. Effects of hyperhydration on human endurance of orthostatic and LBNP tests	p0072 N79-14721		

- GILBERT, B. K.**
High-speed computerized tomography p0004 A79-12030
- GILBERT, M. S.**
Medical qualification procedures for hazardous-duty aeromedical research p0026 N79-11695
- GILL, A. T.**
The holographic Pancake Window p0138 A79-28172
- GILLAM, B.**
Orientation relative to the retina determines perceptual organization p0299 A79-52539
- GILLESPIE, G. P.**
An overview of helicopter mission specific survival equipment p0183 A79-33625
- GILLESPIE, J. H.**
Are evolutionary rates really variable p0232 A79-42273
- GILLILAND, P.**
Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- GILLINGHAM, K. K.**
Relaxed +Gz tolerance in healthy men - Effect of age p0067 A79-18956
Effect of age on relaxed +G sub z tolerance of aircrewmen p0030 N79-11719
Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub Z stress p0286 N79-31916
- GILLIS, M. F.**
The use of Na-22 as a tracer for long-term bone mineral turnover studies. p0265 A79-47327
- GILSON, R. D.**
Secondary visual workload capability with primary visual and kinesthetic-tactile displays p0064 A79-18220
A comparison of kinesthetic-tactile and visual displays via a critical tracking task p0162 A79-29720
Helicopter commands at the touch of a hand [AHS 79-13] p0270 A79-49066
Evaluation of kinesthetic-tactile displays using a critical tracking task p0119 N79-17516
- GITELZON, I. I.**
Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems p0246 N79-27834
- GLADILIN, K. L.**
Coacervate drops as a model for precellular structures p0204 A79-37960
- GLADKIY, T. V.**
Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs p0312 N79-33803
- GLAISTER, D. H.**
Mechanics of mammalian lung p0247 N79-27844
The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +Gsub z acceleration [PPRC-1362] p0248 N79-27856
The effect of acceleration and seat back angle on performance of a reaction time task [PPRC-1364] p0248 N79-27857
The influence of seat back angle on acceleration tolerance [PPRC-1365] p0248 N79-27858
- GLANFIELD, E. J.**
Automated biowaste sampling system feces monitoring system [NASA-CR-160301] p0281 N79-30937
- GLASER, P. E.**
Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176] p0099 A79-21273
- GLASS, B. C.**
An algorithm to ascertain critical regions of human tracking ability
- GLAZKOVA, V. A.**
AAA gunnermodel based on observer theory p0087 N79-15594
- GLEZER, V. D.**
Pneumotachographic distinctions of external respiration in man in the presence of excess intrapulmonary pressure on ground level and at high altitudes p0245 N79-27827
- GLIATTI, E. L.**
Piecewise Fourier analysis of images and the role of occipital, temporal and parietal cortex in visual perception p0160 A79-29248
- GLICK, D. D.**
Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter p0063 A79-18215
- GLINER, J. A.**
Pulmonary function and maximum exercise responses following acute ozone exposure p0273 A79-49987
Auditory and visual sustained attention during ozone exposure p0273 A79-49988
- GOAVEC, A.**
A description of the recent neuropsychological selection of pilots for land forces light aircraft p0151 N79-19633
- GOBUTY, D. E.**
TADRAP: A computer-aided technique for reducing aircrew task analysis data p0150 N79-19628
- GOTHELF, J.**
The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving [IZP-1978-16-PR-1] p0145 N79-18588
Steering behaviour and manual control actions. Part 1: An evaluation of the literature and a research plan [IZP-1978-3] p0146 N79-18594
- GOEL, S. K.**
Correlation of binocular vision test results with synaptophore evaluation p0201 A79-37136
- GOPTERS, K. B.**
The influence of hyperbaric environment in combination with workload and confinement on human information processing [DLR-FB-78-12] p0280 N79-30926
Personality profiles of divers involved in research activities [DLR-FB-78-11] p0281 N79-30935
Psychological selection of Spacelab payload specialists: The evaluation of German applicants [DLR-FB-78-29] p0281 N79-30936
- GOGEL, W. C.**
The common occurrence of errors of perceived distance p0100 A79-22775
A comparison of oculomotor and motion parallax cues of egocentric distance p0305 A79-54253
- GOGOLEV, K. I.**
Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
Comparison of physiological effects of head-down tilting and immersion on the human body p0298 A79-52279
Correction of transcapillary exchange in man under the influence of rotation on a centrifuge while immersed in water p0110 N79-16533
- GOLBECK, J.**
Photochemistry and enzymology of photosynthesis [COO-3326-70] p0239 N79-26763
- GOLDBERG, B.**
RNAV procedural turn anticipation techniques experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi offset tracking procedures

- [AD-A060501] p0085 N79-15583
GOLDBERG, J. H.
 Tolerance of domestic fowl to high sustained +Gz
 p0127 A79-24630
- GOLDFARB, R. D.**
 Isolation of a shock-induced circulating
 cardiodepressant substance
 p0257 A79-46967
- GOLDHAB, R. F.**
 Optimal methods for physiologic research on clothing
 [AD-A071855] p0319 N79-33852
- GOLDSTEIN, E.**
 Human health damages from mobile source air
 pollution: A delphi method, volume 1
 [PB-288319/7] p0145 N79-18585
- GOLDSTEIN, I. L.**
 Speed and load stress as determinants of
 performance in a time sharing task
 p0068 A79-18999
- GOLDSTEIN, R. S.**
 Absence of effects of hypoxia on small airway
 function in humans
 p0268 A79-47851
- GOLIKOVA, M. A.**
 Quality of water reclaimed from urine as related
 to pH of initial product
 p0313 N79-33807
- GOLLMICK, P. D.**
 Phosphorylase a in human skeletal muscle during
 exercise and electrical stimulation
 p0067 A79-18962
- GOLOBOV, Y. G.**
 Comparative study of acetylcholinesterase
 inactivation in warm-blooded animals and insects
 with substituted vinyl phosphates
 p0121 N79-17527
- GOLOVIN, G. V.**
 Effects of laser radiation on morphology of
 peripheral blood and bone marrow under
 experimental and clinical conditions
 p0071 N79-14710
- GOLOVKIN, L. G.**
 Physiologichygienic and ergonomic aspects of
 Salut 6 cosmonauts extravehicular activity /EVA/
 p0303 A79-53486
- Probability of caisson disease while wearing a
 space suit when exiting from a spacecraft with
 an atmosphere close to that of earth
 p0244 N79-27826
- GOLOVKINA, O. L.**
 External respiration and gas exchange reactions to
 exercise during rotation of man on a
 short-radius centrifuge
 p0193 N79-23639
- External respiration and gas exchange reactions of
 man during rotation on a short-arm centrifuge
 p0313 N79-33812
- GOLUBEVA, L. IU.**
 Effect of adaptation to high-altitude hypoxia on
 cardiac adrenoreactivity and the state of the
 adenylycyclase and phosphodiesterase systems in
 the myocardium
 p0255 A79-46500
- GOLUBIC, S.**
 A biogeochemical study of the Abu Dhabi algal mats
 - A simplified ecosystem
 p0132 A79-26373
- Closed regenerative life support systems for space
 travel - Their development poses fundamental
 questions for ecological science
 p0228 A79-41702
- GOMER, F. E.**
 Evoked potential correlates of display image quality
 p0068 A79-18998
- GOMEZ-SANCHEZ, C.**
 Early cardiovascular adaptation to simulated zero
 gravity
 p0162 A79-29727
- GONCHARENKO, A. H.**
 Electrophysiological investigation of sleep during
 work-shift regime and production-induced
 emotional stress
 p0276 A79-50655
- GONCHAROVA, E. I.**
 Some forms of adaptation to extreme influences in
 the blood system
 p0256 A79-46679
- GOODENOUGH, D. R.**
 Eye torsion in response to a tilted visual stimulus
 p0305 A79-54254
- GOODFELLOW, R.**
 A biogeochemical study of the Abu Dhabi algal mats
 - A simplified ecosystem
 p0132 A79-26373
- GOODMAN, M.**
 On investigating the statistical properties of the
 populous path algorithm by computer simulation -
 Counterconclusions to those of Tateno and Nei
 p0253 A79-45640
- GOODPASTURE, J. E.**
 Tissue gas and blood analyses of human subjects
 breathing 80% argon and 20% oxygen
 p0164 A79-30655
- GOODSON, J. E.**
 Dynamics of an image viewed through a rotating
 mirror
 p0221 A79-36365
- GOODWIN, A. E.**
 Comparison of hormone and electrolyte circadian
 rhythms in male and female humans
 p0004 A79-11948
- GOODWIN, P. E.**
 The loudness of tinnitus
 p0246 N79-27837
- GOOM, M. K.**
 Visual effects of helicopter maneuvre on weapon
 aiming performance
 p0150 N79-19626
- GOPHER, D.**
 Tracking in two dimensions as a function of
 dimension priorities and tracking difficulty
 p0036 A79-13193
- GOPINATH, P. M.**
 Effect of physical training at moderate altitude
 /1850 m/ on hypoxic tolerance
 p0235 A79-43210
- GORCHAKOV, V. IU.**
 The physiological role of surface-active
 substances in the lung
 p0296 A79-51117
- GORDIYENKO, A. P.**
 A photometer for determining the biomass of
 microorgan from the ATP content
 [BLL-RTS-11456]
 p0141 N79-18555
- GORDON, R. B.**
 Computer quantitation of coronary angiograms
 p0293 A79-51030
- GORE, D. C.**
 Extended duration orbiter life support system
 options
 [ASME PAPER 78-ENAS-31]
 p0008 A79-12580
- GORGILADZE, G. I.**
 Role of the visual system in the compensation of
 vestibular dysfunction
 p0162 A79-29971
- Neurophysiological bases of vestibular conditioning
 p0013 N79-10699
- Role of vestibular system in behavior of animals
 submitted to prolonged slow rotation
 p0074 N79-14734
- Effect of restricted activity on vestibular function
 p0312 N79-33802
- GORRAND, J. H.**
 Contributions of the retina and of the eye optical
 system to the modulation lowering of the aerial
 image
 p0100 A79-22771
- GORRELL, E. L.**
 A human engineering specification for legibility
 of alphanumeric symbology on video monitor
 displays
 [AD-A064960]
 p0197 N79-23667
- GORSHUNOVA, A. I.**
 Investigation of composition of trace contaminants
 in the air environment of the Soyuz-22 spacecraft
 p0072 N79-14720
- GORYACHEVA, L. L.**
 Biochemical study of proteins of gastric and
 intestinal mucosa of rats flown aboard the
 Kosmos-605 biosatellite
 p0192 N79-23631
- GOSSEL, D.**
 Biological effects of electromagnetic fields
 p0184 A79-33712
- GOTO, M.**
 Analysis of electroencephalogram during
 psychomotor performance
 p0209 A79-38820

- GOTO, N.**
On the relationship between pilot rating and pilot dynamics. II - An analytical approach
p0066 A79-18475
- GOTOH, M.**
Frequency analysis of heart rate variability under flight conditions
p0202 A79-37713
- GOTTEMBOOS, J. J.**
Aspects of dietary prevention of arteriosclerosis
p0262 N79-29792
- GOTTLIEB, G. L.**
Directional errors of movements and their correction in a discrete tracking task
p0086 N79-15589
- A quasi-linear control theory analysis of timesharing skills
p0120 N79-17520
- GOURAS, P.**
Enhancement of luminance flicker by color-opponent mechanisms
p0252 A79-44582
- GOVARDOVSKII, V. I.**
Intrinsic noise, threshold sensitivity, and adaptation of the retina
p0043 A79-14373
- GOVINDARAJ, T.**
Modeling the human as a controller in a multitask environment
p0087 N79-15595
- Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator
p0088 N79-15605
- The human as a detector of changes in variance and bandwidth
p0117 N79-17496
- GOVORUKHA, T. N.**
The effect of normobaric hyperoxia on brain and liver tissue respiration in albino rats with different resistances to hypoxia
p0296 A79-51113
- GOVSSEYVA, N. N.**
Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia
p0193 N79-23636
- GOYAL, A. K.**
Homomorphic analysis and modeling of ECG signals
p0210 A79-39973
- GRAF, P. A.**
Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006]
p0157 N79-19690
- GRALL, Y.**
The responses of frogs to vestibular and visual stimulation in weightlessness
p0006 A79-12513
- An apparatus for studying electroretinographic responses under conditions of space flight
p0006 A79-12517
- GRANDOLFO, M.**
Problems related to the assessment of safe exposure levels for radio frequency and microwave radiation [ISS-P-78/7]
p0248 N79-27855
- GRANT, G. H.**
Determination of bound water in biological materials from dielectric measurements
p0082 N79-15557
- GRAY, G.**
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression
p0185 A79-33806
- GRAY, S. F.**
Minuteman missile crew fatigue and 24-hour alerts [AD-A056561]
p0056 N79-13696
- GRAYBIEL, A.**
Prevention and treatment of space sickness in Shuttle-Orbiter missions
p0128 A79-24639
- Oculogravic illusion in response to straight-ahead acceleration of a CF-104 aircraft
p0164 A79-30660
- Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness
p0165 A79-30662
- Long term pulmonary function patterns in the aviator: The thousand Aviator study
p0028 N79-11708
- GREEN, D. L.**
Workload and the certification of helicopters for IFR operation [AD-A072758]
p0318 N79-33850
- GREEN, P. S.**
Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-284686/3]
p0052 N79-12703
- Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0]
p0085 N79-15581
- GREEN, R. G.**
Effect of induced cyclic changes of deep body temperature on task performances
p0202 A79-37708
- The psychologist in aircraft accident investigation
p0291 N79-31946
- GREENBERG, P. S.**
Predicting coronary artery disease with treadmill stress testing Changes in R-wave amplitude compared with ST segment depression
p0186 A79-34284
- Predictive accuracy of Q-T/Q-Tc ratio, Q-Tc interval, S-T depression and R wave amplitude during stress testing
p0225 A79-40464
- GREENE, D.**
A sample volume tracking unit for pulsed Doppler echocardiography
p0200 A79-36869
- GREENLEAF, J. E.**
Thresholds for Na⁺/ and Ca⁺⁺/ effects on thermoregulation
p0045 A79-14774
- Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions
p0161 A79-29336
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man
p0163 A79-30624
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man
p0235 A79-43208
- Hyperthermia and exercise
p0252 A79-44775
- Deconditioning-induced exercise responses as influenced by heat acclimation
p0273 A79-49985
- Computer program for calculation of oxygen uptake [NASA-TM-78585]
p0174 N79-21741
- GREENLEAF, J. F.**
Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-284686/3]
p0052 N79-12703
- Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0]
p0085 N79-15581
- GREENLEY, D. R.**
Water system microbial check valve development [NASA-CR-151843]
p0032 N79-11733
- GREENSTEIN, J. S.**
A model of human event detection in multiple process monitoring situations
p0092 N79-15632
- GRETCHKO, G.**
Preliminary results of Cyto experiment flows in Salut VI - Investigations of *Paramechinium aurelia*
p0229 A79-41709
- GRIBANOV, G. A.**
Blood lipid changes in hypoxic rats
p0074 N79-14731
- GRIBENSKI, A.**
The responses of frogs to vestibular and visual stimulation in weightlessness
p0006 A79-12513
- GRIFFIN, D.**
Development of a specialized head/face protective device for test parachuting operations
p0045 A79-14437
- GRIFFIN, J. C.**
Study of crew task loading on the C-141A aircraft [AD-A057346]
p0034 N79-11746

- GRIFFIN, M. J.**
Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance
p0299 A79-52327
- The biodynamic response of the human body and its application to standards
p0288 N79-31929
- GRIFFITH, E. D.**
Energy supply and demand in California
p0242 N79-27603
- GRIFFITH, R.**
Effect of alcohol and marijuana on eye movements
p0101 A79-23469
- GRIGOREV, IU. G.**
Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/
p0006 A79-12518
- GRIGORYEV, A. I.**
Effects of hyperhydration on human endurance of orthostatic and LBNP tests
p0072 N79-14721
- Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station
p0243 N79-27819
- Fluid-electrolyte metabolism in the crew of Salyut-4
p0311 N79-33792
- GRIGORYEV, Y. G.**
Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite
p0014 A79-10702
- GRIMM, D. J.**
Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia
p0277 A79-50905
- GRIM, A. W.**
Effects of microwaves on catecholamine metabolism in the brain
p0075 N79-14739
- GRINDELAND, R. E.**
Studies on the bioassayable growth hormone-like activity of plasma
p0267 A79-47848
- Effects of space flight on plasma and glandular concentrations of pituitary hormones
p0021 N79-11664
- GRINEVSKAYA, I. I.**
Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia
p0313 N79-33813
- GRODINS, F. S.**
Application of pseudo random binary sequence input to identification of respiratory control dynamics
p0268 A79-48011
- GROOD, E.**
Knee flail design limits: Background, experimentation and design criteria
[AD-A062384]
p0220 N79-25746
- GROSSMAN, J. D.**
The relative effects of multiple factors on target acquisition
p0267 A79-47765
- GROTBORG, J. B.**
Lung mechanics: Dynamic response, acoustic generation, and flow limitation
p0017 N79-10727
- GROUND, D. J.**
Transient thermoregulatory model with graphics output
[NASA-CR-160217]
p0212 N79-24637
- Development of an hypothesis for simulating anti-orthostatic bed rest
[NASA-CR-160200]
p0217 N79-25717
- Study report on modification of the long term circulatory model for the simulation of bed rest
[NASA-CR-160186]
p0218 N79-25727
- Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm
[NASA-CR-160232]
p0218 N79-25729
- User's instructions for the whole-body algorithms
[NASA-CR-160233]
p0219 N79-25735
- User's guide for the Skylab integrated medical data analysis system
[NASA-CR-160189]
p0220 N79-25740
- GROVER, R. F.**
Exercise ventilation correlates positively with ventilatory chemoresponsiveness
p0066 A79-18954
- GRUENAU, S. P.**
Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice
p0268 A79-47855
- GRUENER, M.**
Evaluation of toxic effects of organic contaminants in recycled water
[PB-291379/6]
p0190 N79-22760
- GUDAKOVSKII, IU. P.**
Experimental determination of maximum permissible exposure to laser radiation of 1.54-micron wavelength
p0002 A79-10648
- GUEDRY, F. E., JR.**
Motion sickness susceptibility - A retrospective comparison of laboratory tests
p0010 A79-12861
- Visual-vestibular interactions. I - Influence of peripheral vision on suppression of the vestibulo-ocular reflex and visual acuity
p0135 A79-27552
- GUERIN, M. R.**
Mutagenic components of alternate energy sources [CONF-780636-8]
p0280 N79-30923
- GUEST, M. M.**
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen
p0164 A79-30655
- GUILDFORD, W. R.**
Mechanisms of recombination and function of DNA in bacteria
[ORO-3941-33]
p0072 N79-14715
- GUNDBY, A. J.**
Estimated body rotation as a predictor of motion sickness susceptibility
p0273 A79-49990
- GUNNARSSON, E.**
Physical and mental working environment in a terminal based computer system
[BLL-RTS-11634]
p0197 N79-23665
- GUNNING, D.**
Time estimation as a technique to measure workload
p0062 A79-18203
- GUPTA, A. K.**
Heat transfer and temperature distribution in the human body
p0041 A79-13612
- Simulation and control of a human temperature regulation system
p0041 A79-13613
- GUPTA, J. K.**
Effects of partial sleep deprivation on psychological performance and behaviour
p0200 A79-37130
- Design, fabrication and utility of a flight oriented performance test
p0271 A79-49728
- Assessment of spinal disabilities in relation to flying
p0272 A79-49736
- GUREVICH, M. I.**
Reliability of determining the cardiac output by the method of quadrupole chest impedance rheography
p0098 A79-21243
- Possibilities and perspectives of tetrapolar transthoracic impedance rheophethysmography in noninvasive studies of hemo- and cardiodynamics
p0296 A79-51118
- GURNEY, D. J.**
Manual landings in Category 3 conditions
p0297 A79-52055
- GUROVSKII, M. M.**
Medical control in prolonged space flights
[IAP PAPER 78-63]
p0003 A79-11226
- GURUSIDDAPPA, G.**
Functional anatomy of vertebral column with reference to load bearing areas
p0272 A79-49732
- Spinal injury pattern due to ejections
p0272 A79-49734
- GUSAROV, B. G.**
Utilization of the wastes of vital activity
[NASA-TM-75410]
p0177 N79-21768

- GUSEV, Y. N.**
Ultrasonic doppler directional blood flow velocity meter
[RAB-LIB-TRANS-1918] p0279 N79-30920 p0095 N79-15896
- GUSEVA, Y. V.**
Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5 p0107 N79-16515
- Studies of microbial flora and immunity of Salyut-3 crew p0192 N79-23629
- Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station p0244 N79-27820
- GUSEYNOV, F. T.**
DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- GUSKI, R.**
Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection p0162 A79-29763
- GUSTAFSON, D. E.**
Microprocessor: Based prosthetic control [PB-286652/3] p0113 N79-16559
- GUTIERREZ, G.**
A discrete parameter model of the head and neck with neuromuscular feedback p0211 N79-24627
- GUY, A. W.**
Microwave and RF dosimetry p0083 N79-15561
- GYORKI, J. R.**
Instrumentation for controlling and monitoring environmental control and life support systems [ASME PAPER 78-ENAS-40] p0009 A79-12587
- H**
- HAAKONSON, B. H.**
Between incident and accident p0292 N79-31953
- HAASE, W. C.**
Quantitative flow estimation with transcutaneous Doppler ultrasound p0295 A79-51042
- A directional pulsed-Doppler ultrasonic blood flowmeter p0050 N79-12693
- HABERCOM, G. E., JR.**
Flight simulator training, volume 2. A bibliography with abstracts [NTIS/PS-79/0277/8] p0222 N79-25758
- HACKNEY, J. D.**
Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
- HADJ-SALEM, R.**
Adjustment of an electronic model for electrocardiogram simulation p0232 A79-42240
- HADNI, J.-C.**
Psychosis in air force flight personnel during the last 25 years p0103 A79-23957
- HAEGERSTROM-PORTNOY, G.**
Contrast effects on smooth-pursuit eye movement velocity p0104 A79-24068
- HAGMANN, M. J.**
Electromagnetic absorption in a multilayered model of man p0226 A79-40650
- Some recent results on the deposition of electromagnetic energy in animals and models of man p0083 N79-15563
- Numerical studies of absorption of electro-magnetic energy by man p0110 N79-16538
- HAINES, R. F.**
Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
- Vision p0095 N79-15894
- HAJJI, M. A.**
Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702
- HALBERG, R. L.**
Visual contrast sensitivity functions obtained with colored and achromatic gratings p0181 A79-32628
- HALBREICH, U.**
Capillary fragility during air exposure of man to 1-5 ATA and after decompression p0010 A79-12863
- HALCOMB, C. G.**
Seating, console and workplace design - Seated operator reach profiles p0036 A79-13188
- Seating, console, and workplace design - Integration of literature and accommodation model p0036 A79-13189
- HALEY, J. L.**
The use of mathematical modeling in crashworthy helicopter seating systems p0287 N79-31923
- HALL, A. C.**
Helmet weight simulator [NASA-CASE-LAR-12320-1] p0223 N79-25761
- HALL, C. P.**
Digital color image compression in a perceptual space p0136 A79-28013
- HALL, R. J.**
Human factors design criteria for transilluminated displays p0036 A79-13187
- HALVERSON, C. A.**
Temperature-dependent morphological changes in membranes of *Bacillus stearothermophilus* p0005 A79-12475
- HALVORSON, H. O.**
Biological implications of the Viking mission to Mars p0045 A79-14595
- HAMILL, P.**
Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251
- HAMLET, M.**
Increased survival in experimental dog heatstroke after reduction of gut flora p0266 A79-47335
- HANCHEY, P.**
Responses to crown gall tissue to the space environment: Isozyme patterns p0020 N79-11656
- HANDA, Y.**
Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- HANKIN, N. W.**
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/8] N79-25750
- Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4] p0241 N79-26779
- HANN, R. L.**
Refinement of a computer simulation model for evaluating DAIS display concepts p0038 A79-13209
- HANNA, H. H.**
Aeromedical aspects of otolaryngology p0136 A79-27562
- HANSEN, R. H.**
Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
- HANSON, C. A.**
Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0102 A79-23471

- HARDEN, W. R., III**
Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- HARDIN, J. C.**
Monitoring the state of the human airways by analysis of respiratory sound [IAP PAPER 78-66] p0003 A79-11227
- HARDING, J.**
Test and evaluation process for life support systems p0184 A79-33643
- HARDY, G. H.**
A safety margin and flight reference system and display for powered-lift aircraft p0090 N79-15614
- HARDY, H. H.**
Mathematical simulation of the human circulatory system p0110 N79-16535
- HARKEN, A. H.**
Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- HARLAN, A. D.**
Developing closed life support systems for large space habitats [AAS PAPER 78-145] p0099 A79-21260
- HARLEN, F.**
Protection standards for microwave and radiofrequency radiations p0300 A79-52878
- HARPER, J. A.**
Improved airline-type supplied-air plastic suit [DPSPN-78-30-12] p0282 N79-30943
- HARRINGTON, W. W.**
An approach to the multi-axis problem in manual control p0115 N79-17482
- HARRIS, D. A.**
Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
- HARRIS, G. D.**
Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- HARRIS, H. F.**
Cost analysis of pilot training systems [SAE PAPER 781005] p0130 A79-25887
- HARRIS, L. D.**
Distribution of regional volumes and ventilation in excised canine lobes p0236 A79-43703
- HARRIS, R. L., SR.**
Advanced transport operation effects on pilot scan patterns p0295 A79-51098
- HARRIS, R. W.**
Magnitude estimation as a hearing aid selection procedure p0246 N79-27838
- HARRIS, S. D.**
Human performance in concurrent verbal and tracking tasks: A review of the literature [AD-A060493] p0085 N79-15585
- Human performance in time-shared verbal and tracking tasks [AD-A070275] p0308 N79-32831
- HARRIS, W. P.**
ARPA authoring system [AD-A064723] p0190 N79-22762
- HARRISON, D. C.**
Noninvasive cardiovascular measurements p0293 A79-51026
- HARRISON, E. A.**
Eutrophication. Volume 2: A bibliography with abstracts [NTIS/PS-78/0771/2] p0013 N79-10695
- Eutrophication. Volume 3: A bibliography with abstracts [NTIS/PS-78/0772/0] p0013 N79-10696
- Ecosystem models, volume 3. A bibliography with abstracts [NTIS/PS-78/1146/6] p0054 N79-13678
- Ecosystem models, volume 2. A bibliography with abstracts [NTIS/PS-78/1145/8] p0054 N79-13679
- Information processing in humans, volume 2. A bibliography with abstracts [NTIS/PS-78/1153/2] p0058 N79-13709
- Information processing in humans, volume 3. A bibliography with abstracts [NTIS/PS-78/1154/0] p0058 N79-13710
- Stress factors on pilot performance. A bibliography with abstracts [NTIS/PS-78/1289/4] p0145 N79-18589
- Biological effects of laser radiation, volume 2. A Bibliography with abstracts [NTIS/PS-79/0020/2] p0176 N79-21761
- Aircraft sonic boom: Biological effects. A bibliography with abstracts [NTIS/PS-79/0190/3] p0214 N79-24650
- Cardiovascular diseases, volume 3. A bibliography with abstracts [NTIS/PS-79/0063/2] p0260 N79-28874
- Altitude hypoxia, volume 1. A bibliography with abstracts [NTIS/PS-79/0427/9] p0280 N79-30927
- Altitude hypoxia, volume 2. A bibliography with abstracts [NTIS/PS-79/0428/7] p0280 N79-30928
- Biological effects of microwaves, volume 1. A bibliography with abstracts [NTIS/PS-79/0432/9] p0280 N79-30929
- Biological effects of microwaves, volume 2. A bibliography with abstracts [NTIS/PS-79/0433/7] p0280 N79-30930
- Hypothermia. A bibliography with abstracts [NTIS/PS-79/0533/4] p0308 N79-32830
- Hyperbaric oxygenation. A bibliography with abstracts [NTIS/PS-79/0744/7] p0317 N79-33837
- HARRISON, G.**
Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- HARRISON, G. H.**
Temperature uniformity in hyperthermal tumor therapy p0018 N79-10730
- HARRISON, H. H.**
Core temperature measurement in man p0010 A79-12862
- Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations p0266 A79-47334
- HARRISON, W. K.**
Age trends in the cardiovascular dynamics of aircrewmen p0136 A79-27560
- HART, F. I.**
Space osteoporosis - An electromagnetic hypothesis p0165 A79-30666
- HART, G. B.**
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen p0164 A79-30655
- HART, H. H.**
Habitable zones about main sequence stars p0136 A79-27930
- HART, S. G.**
Pilot workload during final approach in congested airspace p0269 A79-48014
- Time estimation as a secondary task to measure workload: Summary of research p0093 N79-15634
- HARTER, M. R.**
Objective determination of human visual acuity from the visual evoked potential p0228 A79-41423
- HARTMAN, B. O.**
Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254] p0290 N79-31942
- HARTMAN, R.**
Synthesis of organic compounds from carbon monoxide and water by UV photolysis p0099 A79-22077
- Speculations of the evolution of the genetic code. II p0099 A79-22080

PERSONAL AUTHOR INDEX

HEPPNER, D. B.

- BARTHANN, E.
The peripheral critical flicker frequency p0271 A79-49482
- BARTZELL, E. J.
An algorithm to ascertain critical regions of human tracking ability p0163 A79-30218
- A relationship between eye movement patterns and performance in a precognitive tracking task p0116 N79-17490
- HARVEY, J. F.
Component performance of a 360 deg non-programmed visual display p0137 A79-28163
- HARVEY, W. W., JR.
Observation of night shipboard helicopter operations from a 210 foot US Coast Guard cutter p0151 N79-19637
- HARWERTH, R. S.
Stereopsis in monkeys using random dot stereograms - The effect of viewing duration p0271 A79-49481
- HASEGAWA, M.
Evolution of transfer RNA p0206 A79-37975
- HASKELL, E. H.
Effects of sleep at altered ambient temperatures on electrophysiological sleep and thermoregulatory mechanisms in human subjects and in the ground squirrel (*Citellus lateralis*) p0216 N79-25709
- HATAHAKA, H.
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums p0203 A79-37935
- HATCHER, L.
Development of the Air Force S-1030 full pressure suit assembly p0044 A79-14433
- HAUW, C. C.
Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870
- HAUT, R. C.
A numerical method of film analysis with differentiation p0061 A79-17585
- HAUTEMENT, J.-L.
Pulmonary functional tolerance to ionizing radiation - An experimental study p0256 A79-46601
- HAWKINS, H. L.
Time-sharing is not a unitary ability [AD-A056632] p0019 N79-10739
- HAZYAKER, W.
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- HAZRA, I. A.
A microangiographic study of the effect of hyperthermia on the rabbit bladder p0018 N79-10732
- HAZUCHA, M.
The effects of H₂SO₄ on men and H₂SO₄ and O₃ on laboratory animals p0141 N79-18354
- HEARN, W. D.
Impact tests on crash helmets for motor cyclists [AD-A065966] p0197 N79-24655
- HECHTMAN, H. B.
Cardio-pulmonary response to shock [AD-A065672] p0196 N79-23659
- HEFFLEY, R. K.
A safety margin and flight reference system and display for powered-lift aircraft p0090 N79-15614
- HEFT, E. L.
A head-up display for mid-air drone recovery p0090 N79-15615
- HEIDELBAUGH, H. D.
Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research [NASA-CR-158846] p0260 N79-28880
- HEIDMANN, W.
Evolution in open systems - Acquisition and conservation of information in bioids
- HEINEMAN, R. E.
Binocular holographic helmet mounted display [AD-A062761] p0174 N79-20749
- HEIMTZER, P. H.
Computer quantitation of angiographic images p0293 A79-51028
- HEISING, H.
A visual simulator with transformation of the perspective in the raster of television pictures p0069 A79-19375
- HELD, R.
Eye torsion and visual tilt are mediated by different binocular processes p0256 A79-46651
- HELGREN, S. L.
Relationship between proton motive force and potassium ion transport in *Halobacterium halobium* envelope vesicles p0227 A79-40775
- HELLMAN, L.
Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0028 N79-11704
- HELLWIG, J. W.
Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4] p0241 N79-26780
- HELM, W. R.
The application of computer aided evaluative techniques to system test and evaluation p0036 A79-13190
- System operability - Concept and measurement in test and evaluation p0062 A79-18204
- HELMREICH, R. L.
Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
- HELM, C. R.
Prosthetic urinary sphincter [NASA-CASE-MFS-23717-1] p0077 N79-14756
- HEMAMI, H.
Biped stability considerations with vestibular models p0066 A79-18287
- HEMPPEL, F. G.
Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0266 A79-47331
- HENDERSON, D. E.
Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552
- HENDLER, E.
Some human responses to repeated +G sub z pulses p0288 N79-31928
- HENDRICK, H. W.
Physiological biorhythm as a correlate of pilot error accidents and incidents p0065 A79-18228
- HENDRIX, J. E.
Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue p0020 N79-11653
- HENKE, R. P.
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- Space radiation dosimetry onboard COSMOS 936: US portion of experiment K-206 p0023 N79-11677
- HENNEBERRY, T. J.
Selected examples of dispersal of arthropods associated with agricultural crop and animal production p0148 N79-19595
- HENNEY, H. R., JR.
The effect of plasmoidal slime on the metabolism of haploid cells of *Physarum flavicomum* and the respiration of isolated mitochondria p0105 A79-24513
- Effects of gravity on contractile proteins [NASA-CR-160303] p0279 N79-30913
- HEPPNER, D. B.
Electrochemically regenerable carbon dioxide

absorber [NASA-CR-152099]	p0262 N79-29794	HIGGINS, R. Measurement of skin temperatures of active subjects by wireless telemetry
HERIGAULT, R. A. Effects of chronic changes in hemoglobin-O2 affinity in rats	p0185 A79-33808	HIGUCHI, S. Possible contribution of transferable exogenous DNA in prokaryotic evolution
HERMAN, J. A. Contrast enhancement using local area brightness and gain control	p0037 A79-13199	p0205 A79-37971 Possible contribution of transferable exogenous DNA in prokaryotic evolution
HERN, S. C. Distribution of phytoplankton in North Carolina lakes [PB-286387/6]	p0084 N79-15573	HILADO, C. J. Statistical studies of animal response data from USF toxicity screening test method
Distribution of phytoplankton in Arkansas lakes [PB-292742/4]	p0240 N79-26768	p0205 A79-37971 Two-week studies of survivors from exposures to pyrolysis gases
HERNANDEZ, J. Spinal injuries in the F/PB-111 crew escape system	p0274 A79-49996	p0066 A79-18307 Weight control and restraint of laboratory rats
HERREMAN, R. Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88]	p0302 A79-53291	p0133 A79-26584 HILGEERT, J. W. Distribution of phytoplankton in Arkansas lakes [PB-292742/4]
HERSHBERGER, M. L. Contrast enhancement using local area brightness and gain control	p0037 A79-13199	HILL, H. G. A literature review-problem definition studies on selected toxic chemicals. Volume 5: Occupational health and safety and environmental aspects of zinc chloride [AD-A056020]
Synthetic aperture radar operator tactical target acquisition research	p0037 A79-13202	p0025 N79-11687 HILL, I. B. Injury mechanisms analysis in aircraft accidents
HESS, R. A. A rationale for human operator pulsive control behavior	p0186 A79-34520	p0286 N79-31913 HILL, J. W. Two measures of performance in a peg-in-hole manipulation task with force feedback
A structural model of the adaptive human pilot [AIAA 79-1784]	p0252 A79-45411	p0118 N79-17506 Study of modeling and evaluation of remote manipulation tasks with force feedback
A dual-loop model of the human controller	p0115 N79-17480	[NASA-CR-158721] p0242 N79-26785
HETHERINGTON, N. W. Comparison of circadian rhythms in male and female humans	p0004 A79-11947	HILL, R. C. Biodynamic effects of canopy loss in the TF-15 aircraft
HEYBACH, J. P. Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat	p0005 A79-12474	p0163 A79-30651 HILL, R. E. Aircrew modularized inflight data acquisition system [AD-A064725]
Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding	p0235 A79-43605	p0190 N79-22766 HILLMAN, A. L. MM/1, a man-machine interface: A contribution towards a standard [NPL-CSU-2/78]
Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats	p0275 A79-50232	p0197 N79-23669 HILLS, B. A. Effect of decompression per se on nitrogen elimination
HIAST, F. A. Distribution of phytoplankton in North Carolina lakes [PB-286387/6]	p0084 N79-15573	p0067 A79-18964 Mechanical vs. ischemic mechanisms for decompression sickness
HICKMAN, J. E., JR. Concurrent loss of consciousness and sino-atrial block during +Gz stress	p0202 A79-37714	p0164 A79-30656 The lung as a filter for microbubbles
HICKS, J. A., III A methodology for conducting human factors evaluations of vehicles in operational field tests [AD-A061808]	p0157 N79-19691	p0277 A79-50906 Fundamental biophysical aspects of decompression sickness
HIDSON, D. J. Pattern of heat loss from a subject wearing CP temperate-climate combat clothing [AD-A057746]	p0093 N79-15636	[AD-A069998] p0315 N79-33827 HILTEMBRAND, C. The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases
HIEGEL, M. Results of benthic studies at Calvert Cliffs [PB-294261/3]	p0261 N79-29788	p0256 A79-46600 HINSDALE, R. Masculinity, femininity, androgyny. What really works at work [AD-A061177]
HIELTALA, S. O. A microangiographic study of the effect of hyperthermia on the rabbit bladder	p0018 N79-10732	p0156 N79-19683 HINSHAW, L. B. Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123]
HIGENBOTTAM, C. Effect of cockpit temperature gradients on the validity of single-point measurements	p0234 A79-43203	p0169 N79-20717 HINTON, W. H., JR. F-4J/N instructional system development: Phase 1 [AD-A061098]
HIGGINS, E. A. Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance	p0127 A79-24635	p0156 N79-19684 HIOTT, B. F. The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide
Effects of propranolol on Time of Useful Function (TUF) in rats [AD-A068535/4]	p0283 N79-31896	[AD-A055212] p0056 N79-13694 The dynamic oxygen-regulator test stand [AD-A060978] p0125 N79-17560 HIRSCH, D. W. In-flight toxicology of fixed and rotary wing aircraft crew stations

PERSONAL AUTHOR INDEX

HOSMAN, R. J. A. W.

HLASTALA, M. P.	p0149 N79-19619	
Gas exchange under environmental stress [AD-A058242]	p0056 N79-13697	
HOBBIE, J. E.		
Bacteria in a North Carolina salt marsh. Standing crop and importance in the decomposition of <i>Spartina alterniflora</i> [PB-288816/2]	p0153 N79-19668	
HODGES, G.		
Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey	p0147 N79-19022	
HOPPLER, G. W.		
Skylab medical data evaluation program (SMDDEP) [NASA-CR-160279]	p0259 N79-28869	
HOPPMAN, J. C.		
Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4]	p0241 N79-26780	
HOPPMAN, J. E.		
A two-stage model of visual search	p0186 A79-33948	
HOPPMAN, M. S.		
Multipurpose digital switching and flight control workload [AD-A069606]	p0281 N79-30934	
HOFFMANN, H. E.		
The limited range of the human eye for optical aircraft acquisition	p0291 N79-31948	
HOFFMANN, L. G.		
Investigation of nonlinear motion simulator washout schemes	p0091 N79-15624	
HOFMANN, M. A.		
Visual workload of the copilot/navigator during terrain flight	p0038 A79-13206	
Visual workload of the copilot/navigator during terrain flight	p0209 A79-38364	
HOGGE, J. R.		
The effects of alcohol on driver performance in a decision making situation	p0092 N79-15629	
HOLDEN, R. D.		
The dynamic oxygen-regulator test stand [AD-A060978]	p0125 N79-17560	
HOLLAND, A. F.		
Results of benthic studies at Calvert Cliffs	p0261 N79-29788	
HOLLAND, O. B.		
Early cardiovascular adaptation to simulated zero gravity	p0162 A79-29727	
HOLLWICH, F.		
The physiological significance of light for human beings [RAE-LIB-TRANS-1976]	p0077 N79-14757	
HOLMES, R. E.		
A 25-inch precision color display for simulator visual systems	p0137 A79-28164	
HOLMGREN, M.		
Human processing of information and the computerized mode of presentation: Ergonomic parameters [FOA-C-56018-H9]	p0263 N79-29797	
HOLMQVIST, R.		
Life sciences and space research XVI; Proceedings of the Open Meetings of the Working Group on Space Biology, Tel Aviv, Israel, June 7-18, 1977	p0005 A79-12508	
The augmentation algorithm and molecular phylogenetic trees	p0070 A79-20267	
Beta-galactosidase and selective neutrality	p0132 A79-26169	
Life sciences and space research XVII; Proceedings of the Open Meeting of the Working Group on Space Biology, May 29-June 10, 1978, and Symposium on Gravitational Physiology, Innsbruck, Austria, June 2, 3, 1978	p0228 A79-41701	
Molecular phylogenetic trees - On the validity of the Goodman-Moore augmentation algorithm	p0253 A79-45645	
HOLSTEIN, G. L.		
Whole body response research program. Appendix A: Methodology [PB-286152/4]	p0094 N79-15641	
HOLTON, E. H.		
Quantitative analysis of selected bone parameters	p0022 N79-11668	
Quantitative analysis of selected bone parameters	p0023 N79-11676	
HOLZER, G.		
Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria'	p0232 A79-42274	
HOLZHAUSEN, K.-P.		
Ergonomic problems regarding the interactive touch input via screens in onboard and ground-based flight control	p0061 A79-17695	
HOLZMINDEN, W. B.		
Solar radiation, light protection and tanning of human skin [BLL-RTS-11580]	p0142 N79-18574	
HOMA, J.		
Single frequency RF powered ECG telemetry system	p0131 A79-26074	
HOON, R. S.		
Incidence of cardiovascular problems among flying personnel and their evaluation	p0182 A79-33186	
HORDINSKY, J. R.		
From the laboratory to the Spacelab - Training program for Spacelab payload experts [DGLP PAPER 78-182]	p0069 A79-20023	
Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80]	p0301 A79-53288	
A new application of LBNP to measure orthostatic tolerance before and after 0-G simulation /water immersion/ [IAF PAPER 79-87]	p0302 A79-53290	
HORNECK, G.		
The Biostack experiment in the U.S. long exposure duration test program	p0227 A79-41230	
HORNSETH, J. P.		
Two dimensional eye tracking: Sampling rate of forcing function	p0090 N79-15617	
Head tracking at large angles from the straight ahead position	p0090 N79-15618	
HORNSTRA, G.		
Effects of dietary fats on atherosclerosis and thrombosis	p0240 N79-26776	
HOROWITZ, J. H.		
Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G	p0227 A79-41185	
HORRIGAN, D. J.		
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen	p0164 A79-30655	
HORVATH, S. M.		
Thermoregulation in swimmers and runners	p0227 A79-41186	
Response of women mountaineers to maximal exercise during hypoxia	p0234 A79-43201	
Pulmonary function and maximum exercise responses following acute ozone exposure	p0273 A79-49987	
Auditory and visual sustained attention during ozone exposure	p0273 A79-49988	
HORWITZ, A. H.		
Effects of magnesium, calcium, and serum on reversion of stable L-forms	p0131 A79-26140	
HORWITZ, B. A.		
Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G	p0227 A79-41185	
HOSMAN, R. J. A. W.		
Vestibular models and thresholds of motion perception. Result of tests in a flight simulator [VTH-LR-265]	p0146 N79-18595	

- HOTTINGER, C. F.
Quantitative flow estimation with transcutaneous Doppler ultrasound
p0295 A79-51042
- HOUDAS, Y.
Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m
p0102 A79-23474
- HOUGE, J. C.
Portable device for detection of petit mal epilepsy
p0254 A79-46226
- HOUK, T. L.
Real-time computerized fluoroscopic cardiac imaging
p0294 A79-51035
- HOUSE, K.
Development of a performance criterion for air traffic personnel research through air traffic control simulation
[AD-A058082]
p0031 N79-11727
- HOWARD, J. H., JR.
Two approaches to category representation in aural classification
[AD-A066705] N79-25754
- Predicting individual listener confusions in the classification of complex, steady-state sounds
[AD-A066704] p0222 N79-25755
- Classification of amplitude-modulated noise patterns with extended practice
[AD-A066703] p0222 N79-25756
- HOWARD, P.
Health effects associated with diesel exhaust emissions, literature review and evaluation
[PB-289817/9] p0171 N79-20727
- Human factors in Space vehicles and space stations
p0189 N79-22135
- HOWARD, W. H.
In-vivo bone strain telemetry in monkeys /M. nemestrina/
US experiments flown on COSMOS 782
p0002 A79-10608
- HOWELLS, R.
A microangiographic study of the effect of hyperthermia on the rabbit bladder
p0018 N79-10732
- HOWES, W. L.
Overall loudness of steady sounds according to theory and experiment
[NASA-RP-1001] N79-25753
- HOYLE, F.
Lifecloud: The origin of life in the universe
p0061 A79-17123
- HRUBY, T.
Impact of large scale aquatic biomass systems
[PB-282617/0] p0013 N79-10697
- HUANG, H. W.
Studying the state of cellular metal ions by the extended X-ray absorption fine structure
[AD-A069799] p0279 N79-30914
- HUBBARD, R. P.
Anatomical frames of reference and biomechanics
p0065 A79-18230
- HUBEL, D. H.
The visual cortex of normal and deprived monkeys
p0296 A79-51174
- HUFFMAN, R. D.
Chemicals identified in human biological media, a pilot literature survey
[PB-290690/7] p0214 N79-24649
- HUFFSTEALER, W. J.
Life sciences experiments in the first Spacelab mission
[ASME PAPER 78-ENAS-26] p0008 A79-12575
- HUGENHOLTZ, P. G.
Clinical usefulness of radiopaque markers in left ventricular function
p0293 A79-51029
- HUGHES, R. G.
Advanced training features: Bridging the gap between in-flight and simulator-based models of flying training
[AD-A068142] p0289 N79-31934
- HULL, D. H.
Relaxed +Gz tolerance in healthy men - Effect of age
p0067 A79-18956
- Blood pressure variability of the individual in orthostatic testing
p0265 A79-47328
- Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen
p0027 N79-11699
- Effect of age on relaxed +G sub z tolerance of aircrewmen
p0030 N79-11719
- Reproducibility of human cardiovascular responses to orthostatic stress
p0030 N79-11720
- HUMPHREYS, G.
The fitting of Canadian Forces aircrew helmets - Why the difference
p0184 A79-33645
- HUNG, T.-K.
Basic biomechanics equations for cardiovascular flow
p0304 A79-53534
- HUNT, B.
Vibration, performance, and personality
p0040 A79-13224
- HUNT, S. H.
Temperature effects on shape and function of human granulocytes
[AD-A063750] p0189 N79-22757
- HUNT, S. R.
Animal life support transporters for Shuttle/Spacelab
[ASME PAPER 78-ENAS-10] p0006 A79-12559
- Food and waste management biotechnology for the space shuttle
[IAF PAPER 79-93] p0302 A79-53294
- Automated biowaste sampling system feces monitoring system
[NASA-CR-160301] p0281 N79-30937
- HUNTOON, C. L.
Skylab medical data evaluation program (SMEDEP)
[NASA-CR-160279] p0259 N79-28869
- HURST, M. W.
Air traffic controller health change study
[FAA-AM-78-39] p0122 N79-17534
- HUSTON, R. L.
Multibody dynamics including translation between the bodies, with application to head-neck systems
[AD-A062114] p0174 N79-20747
- HUTCHINS, C. W., JR.
The relationship between Air Combat Maneuvering Range (ACMR) output measures and initial visual acquisition performance
[AD-A062134] p0173 N79-20744
- HYDEN, H.
A compact low-volume, self-regenerating artificial kidney
[PB-287808/0] p0123 N79-17545
- HYMAN, A. I.
Influence of exercise and CO₂ on breathing pattern of normal man
p0237 A79-43704
- HYMER, W. C.
Purification and cultivation of human pituitary growth hormone secreting cells
[NASA-CR-151853] p0051 N79-12697
- Purification and cultivation of human pituitary growth hormone secreting cells
[NASA-CR-160242] p0219 N79-25736
- HYNECEK, J.
Single frequency RF powered ECG telemetry system
p0131 A79-26074
- I
- IAICHNIKOV, I. K.
Characteristics of EEG changes in rabbits in response to local cooling or heating of the central thermosensory area
p0221 A79-36097
- IAKHNO, V. P.
Elements of the theory of biological analyzers
p0132 A79-26450
- IAKOVLEVA, V. A.
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting
p0127 A79-24634
- IBRAGIMOV, IU. I.
The response of the microvascular canal to a hypoxic helium-containing medium
p0208 A79-38151
- IGNAZI, G.
The use of biostereometry in helicopter cockpit design
p0150 N79-19629

- IKEDA, H.**
Useful visual field size for pattern perception
p0129 A79-25098
- IKELS, K. G.**
Molecular sieve oxygen generating system - The argon question /A brief review/
p0274 A79-49994
- Human compatibility testing of a 2-man molecular sieve oxygen generator
[AD-A058248] p0053 N79-12710
- ILIANOK, V. A.**
Reciprocal interaction between the photopic and scotopic systems of the visual analyzer in man
p0296 A79-51327
- ILIN, Y. A.**
Compensatory reactions of the kidneys to orthostatic factors
p0015 N79-10708
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite
p0073 N79-14726
- ILINA-KAKUEVA, E. I.**
Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936
p0274 A79-49992
- ILINA-KAKUYEVA, Y. I.**
Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man
p0192 N79-23634
- The combined effect of space flight factors and radiation on rat skeletal muscles
p0244 N79-27821
- ILIUZHINA, N. I.**
Amino acids in southern Kamchatka hot springs
p0182 A79-33122
- ILLE, H.**
The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases
p0256 A79-46600
- ILLINGER, K. H.**
Millimeter wave and far infrared absorption in biological systems
p0082 N79-15554
- INCHINA, V. I.**
Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits
p0108 N79-16523
- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia
p0194 N79-23644
- Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia
p0313 N79-33813
- INDOVINA, P. L.**
ESR studies on different pathological states [ISS-L-22/9]
p0248 N79-27854
- ININ, I.**
Ergonomics laboratory studies pilots' stability for command
p0121 N79-17529
- INOUE, H.**
A binocular stereoscopic display system for echocardiography
p0130 A79-26072
- Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere
p0203 A79-37937
- IRISH, P. A., III**
Subjective motion discrimination in the simulator for air-to-air combat
[AD-A059742] p0079 N79-14770
- Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view
[AD-A070231] p0308 N79-32832
- ISABELLE, D. B.**
Mechanism of the formation of phosphenes by X-rays
p0006 A79-12516
- ISHAY, J.**
Geotropism of hornet comb construction under persistent acceleration
p0006 A79-12514
- ISHIGAMI, M.**
The origin of the protein synthesis mechanism
p0207 A79-37986
- ISHIHARA, K.**
The dangerous relation between sunburn and skin cancer
[BLL-RTS-11310] p0142 N79-18573
- ISHIMOTO, S.**
Sulfate-reducing bacteria and biochemical evolution
p0205 A79-37967
- Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution
p0205 A79-37968
- ISKANDER, S. F.**
An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals
p0278 A79-51015
- ISMAILOV, E. S.**
Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions
p0075 N79-14743
- ISREAL, J.**
The event related cortical potential as an index of task workload
p0038 A79-13208
- ISWANDHI, G. I.**
Adaptive locomotion of a multilegged robot over rough terrain
p0163 A79-30217
- ITOKO, T.**
Motion cue effects on human pilot dynamics in manual control
p0119 N79-17514
- IUFER, E. J.**
Biomagnetic instrumentation and measurement
p0295 A79-51043
- IUROV, S. S.**
Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/
p0229 A79-41708
- IUSHCHEVKO, A. S.**
Control systems for robots and manipulators
p0134 A79-27303
- IVANIURA, I. A.**
Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads
p0160 A79-29270
- IVANOV, A. A.**
Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites
p0244 N79-27824
- IVANOV, A. M.**
Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body
p0073 N79-14725
- Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research
p0109 N79-16528
- IVANOV, A. V.**
Dynamic medical monitoring of flight crews in the course of long-term flights
p0072 N79-14719
- IVANOV, K. P.**
Regulation and efficiency of sweating in man /Mathematical modeling/
p0097 A79-20622
- The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/
p0208 A79-38150
- IVANOV, V. I.**
Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research
p0109 N79-16528
- IVASHKEVICH, S. P.**
Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia
p0193 N79-23636
- IVASHKIN, V. T.**
Cyclic nucleotides and adaptation of the organism
p0133 A79-26500
- IVKOVICH, V. A.**
Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiosignals
p0276 A79-50658

J

- JACKMAN, K. R.
Telemedicine: An expanding new science on land and sea
p0146 N79-19020
- JACKSON, J. K.
Biological specimen holding facilities for Spacelab experiments
[IAF PAPER 78-56] p0003 A79-11224
- JACKSON, W. G., JR.
Reproducibility of +Gz tolerance testing
p0267 A79-47337
- JACOBS, H. K.
Role of skin temperature in the control of sweating
p0277 A79-50907
- JAEGER, J. J.
Evidence for increased intrathoracic fluid volume in man at high altitude
p0305 A79-54266
- Evidence for increased intrathoracic fluid volume in man at high altitude
[AD-A065333] p0220 N79-25743
- JAEGER, R. J.
Directional errors of movements and their correction in a discrete tracking task
p0086 N79-15589
- JAFFE, M. J.
A study of the mechanism of thigmomorphogenesis in plants, with special reference to the role of ethylene and its significance to research with plants in space
[NASA-CR-158506] p0190 N79-23625
- JAGACINSKI, R. J.
Secondary visual workload capability with primary visual and kinesthetic-tactile displays
p0064 A79-18220
- A comparison of kinesthetic-tactile and visual displays via a critical tracking task
p0162 A79-29720
- Evaluation of kinesthetic-tactile displays using a critical tracking task
p0119 N79-17516
- JAHNKE, L.
Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of *Saccharomyces cerevisiae*
p0162 A79-30125
- JAMES, D. E.
Radiofrequency radiation levels and population exposure in urban areas of the eastern United States
[PB-292855/4] p0241 N79-26779
- JANICKI, J. S.
The metabolic demand and oxygen supply of the heart - Physiologic and clinical considerations
p0300 A79-52894
- JARDINE, T. E.
Visual effects of helicopter maneuvre on weapon aiming performance
p0150 N79-19626
- JAYASHANKAR, A.
Responses of high altitude natives to a standard cold test at sea level
p0164 A79-30658
- JEFFREYS, R. T.
Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view
[AD-A070231] p0308 N79-32832
- JELL, R. M.
Visual-vestibular interactions. I - Influence of peripheral vision on suppression of the vestibulo-ocular reflex and visual acuity
p0135 A79-27552
- JENNINGS, C. D.
Air traffic controller health change study
[FAA-AM-78-39] p0122 N79-17534
- JENNINGS, A. E.
Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance
p0127 A79-24635
- Measurement and scaling of workload in complex performance
p0164 A79-30659
- A method to evaluate performance reliability of individual subjects in laboratory research
- applied to work settings
[FAA-AM-78-37] p0123 N79-17547
- The measurement and scaling of workload in complex performance
[FAA-AM-78-34] p0125 N79-17558
- Time-sharing ability in complex performance: An expanded replication
[FAA-AM-78-33] p0145 N79-18591
- JENNINGS, G. L.
Oculogravic illusion in response to straight-ahead acceleration of a CF-104 aircraft
p0164 A79-30660
- JENSEN, R. S.
The effects of prediction, quickening, frequency separation, and percent of pursuit in perspective displays for low-visibility landing
p0063 A79-18210
- Judgement evaluation and instruction in civil pilot training
[AD-A057440] p0019 N79-10737
- JESWANI, A. P.
Assessment of spinal disabilities in relation to flying
p0272 A79-49736
- JEK, H. R.
Roll tracking effects of G-vector tilt and various types of motion washout
p0091 N79-15622
- Progress in measuring and modeling the effects of low frequency vibration on performance
p0288 N79-31930
- JOHANNSEN, G.
Arrangement of aircraft flight indicators with the help of optimal theoretical models for man as the controller
[DGLR PAPER 78-149] p0042 A79-14094
- The human operator in the control system: Linear models
p0132 A79-26356
- Prospects of a mathematical theory of human behavior in complex man-machine systems tasks
p0088 N79-15599
- Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator
p0088 N79-15605
- JOHANSON, D. C.
Some human responses to repeated +G sub z pulses
p0288 N79-31928
- JOHNSON, C. C.
Interdisciplinary and international contributions to research on biological effects of electromagnetic waves - Past performances and future challenges
p0129 A79-24878
- An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals
p0278 A79-51015
- JOHNSON, D. E.
The distribution of cadmium and other metals in human tissues
[PB-285200/2] p0057 N79-13703
- JOHNSON, E. T.
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] p0050 N79-12694
- JOHNSON, G. L.
The helmet protects the aviator's head - Or does it
p0044 A79-14429
- JOHNSON, G. S.
Thermoregulation in *Macaca mulatta* - A thermal balance study
p0133 A79-27101
- JOHNSON, J. D.
Masculinity, femininity, androgyny. What really works at work
[AD-A061177] p0156 N79-19683
- JOHNSON, J. E.
Training requirements for helicopter operation with night vision goggles
p0153 N79-19650
- JOHNSON, J. E., JR.
A study of axonal degeneration in the optic nerves of aging mice
p0005 A79-12123
- Senescent changes in the ribosomes of animal cells in vivo and in vitro
p0134 A79-27226

- Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- JOHNSON, J. H.**
Life stress, organizational stress, and job satisfaction [AD-A055153] p0057 N79-13706
- JOHNSON, L. W., JR.**
Medical and operational factors of accidents in advanced fighter aircraft p0290 N79-31944
- JOHNSON, R. L., JR.**
Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
- JOHNSON, S. L.**
Retention and transfer of training on a procedural task interaction of training strategy and cognitive style [AD-A058966] p0052 N79-12704
- JOHNSON, W. E.**
Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133] p0189 N79-22755
- JOHNSON, W. H.**
Oculographic illusion in response to straight-ahead acceleration of a CF-104 aircraft p0164 A79-30660
- JOHNSTON, P. Y.**
Evaluation of fluoropolymer membranes in oxygenators [PB-286698/6] p0112 N79-16547
- JOHNSTON, R. L.**
Dose-effect relationships for ultrasound irradiation of brain tissue p0242 N79-27812
- JOHNSTONE, J. B.**
Upper-velocity threshold for detection of movement p0299 A79-52541
- JOLDA, J. G.**
Aircrew inflight physiological data acquisition system 2 [AD-A055638] p0055 N79-13690
- JOLLEY, L. JR.**
Improved airline-type supplied-air plastic suit [DPSPU-78-30-12] p0282 N79-30943
- JONES, H. D.**
Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715
- JONES, H. E.**
Physiological biorhythm as a correlate of pilot error accidents and incidents p0065 A79-18228
- JONES, J.**
Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- JONES, R. B.**
Application of computer animation for dynamic display in complex energy systems p0186 A79-34172
- JONES, T. J.**
A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system [AD-A070912] p0309 N79-32841
- JONES, W. L.**
The role of physical examinations and education in prospective medicine p0026 N79-11694
- JONES, Y. F.**
Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- US Army aviation fatigue-related accidents, 1971-1977 [AD-A062486] p0171 N79-20725
- JONKOWIEC, T. G.**
Spacecraft utensil/hand cleansing fixture [NASA-CR-151845] p0032 N79-11731
Spacecraft utensil/hand cleansing fixture, addendum [NASA-CR-151846] p0032 N79-11732
- JORDAN, S. W.**
Workload and the certification of helicopters for
- IFR operation [AD-A072758] p0318 N79-33850
- JOUPPERAY, L.**
The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases p0256 A79-46600
- JOY, M.**
The impact of coronary vascular risk factors on professional aircrew license loss in the United Kingdom p0031 N79-11724
- JUERGENS, J.**
An analysis of the saccadic system by means of double step stimuli p0270 A79-49480
- JUKES, T. H.**
Biological implications of the Viking mission to Mars p0045 A79-14595
- JUNK, P.**
Space Sled - A multipurpose apparatus for vestibular research aboard Spacelab [DGLR PAPER 78-132] p0042 A79-14083
- JUNKER, A. M.**
Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972
The effects of closed loop tracking on a subjective tilt threshold in the roll axis p0090 N79-15620
Use of the tilt cue in a simulated heading tracking task p0091 N79-15621
- Roll tracking effects of G-vector tilt and various types of motion washout p0091 N79-15622
- A method motion simulator design based on modeling characteristics of the human operator p0091 N79-15623
- Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- K**
- KABUTO, M.**
Temporary threshold shift from transportation noise p0254 A79-46286
- KADENKOV, O. G.**
Magnetic field effect on radial processes in biological membranes p0172 N79-20737
- KAKIMOTO, Y.**
Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet fighter p0209 A79-38821
- KAKURIN, L. I.**
Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- KALANDAROV, S.**
Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
- KALANDAROVA, B. P.**
Recovery of hemopoiesis in rats exposed to radiation during space flight p0014 N79-10701
- KALCHEV, L. A.**
Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895

- KALEPS, I.**
Prediction of whole-body response to impact forces in flight environments p0284 N79-31902
- KALINA, G. P.**
Microflora of water reclaimed in sealed compartments p0193 N79-23638
- KALINICHENKO, V. I.**
Amino acids in southern Kamchatka hot springs p0182 A79-33122
- KALININA, M. K.**
The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/ p0208 A79-38150
- KALITA, H. F.**
Effects of LBNP on catecholamines and adrenal cortex p0110 N79-16532
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- KALLOK, M. J.**
Distribution of regional volumes and ventilation in excised canine lobes p0236 A79-43703
- KALMUKOVA, N. D.**
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- KALYUZHIN, V. A.**
Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- KAMA, W. N.**
Real-time reconnaissance systems simulator p0139 A79-28175
- KAMENKOVICH, V. M.**
Effect of adaptation level on certain visual functions in man p0296 A79-51328
- KAHENSKAIA, V. G.**
Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems p0043 A79-14371
- KAHENSKIY, Y. N.**
Effects of vibration and noise on some indices of efficiency of MI-4 helicopter crews p0015 N79-10711
- KAHENSKAIA, G. A.**
Some forms of adaptation to extreme influences in the blood system p0256 A79-46679
- KAMSHILOV, M. M.**
Evolution of the biosphere /2nd enlarged edition/ p0270 A79-48310
- KANABUS, E. W.**
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
- KANTOR, J. E.**
Methodology to assess psychological stress and its impact in the air combat environment [AD-A053474] p0057 N79-13707
Air Force female pilots program: Initial performance and attitudes [AD-A065641] p0241 N79-26783
- KANTOR, S. L.**
Hemodynamic indices under orthostatic and vestibular effects p0098 A79-20692
- KAPADIA, A. S.**
Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
- KAPLAN, D.**
Two primate biological facility module in Spacelab [IAF PAPER 78-70] p0003 A79-11229
- KAPLAN, H.**
Firefighters Integrated Response Equipment System [ASME PAPER 78-ENAS-39] p0009 A79-12586
- KAPLAN, I. R.**
Biological implications of the Viking mission to Mars p0045 A79-14595
- KAPLANSKIY, A. S.**
Effects of space flight on course of radiation
- lesions in rat lymphoid organs p0107 N79-16516
- Immunobiological reactivity of the body under hyperbaric and hypobaric conditions p0310 N79-33790
- KAPUR, R. R.**
Incidence of spinal disability amongst IAF pilots - Follow up of 38 cases p0201 A79-37133
Assessment of spinal disabilities in relation to flying p0272 A79-49736
- KARAPETIAN, S. K.**
Effect of the blockade of hypothalamic adrenergic structures on thermoregulatory reactions p0167 A79-31950
- KARCHEVSKIY, P.**
Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylycyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- KAREL, M.**
Mechanisms of deterioration of nutrients [NASA-CR-160128] p0156 N79-19686
Maximizing storage stability of foods to be used for resupply in a controlled ecological life support system: Evaluation of research [NASA-CR-158846] p0260 N79-28880
- KARL, A. A.**
Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0234 A79-43205
- KARLSEN, E. A.**
A study of the effects of six light conditions on caloric induced nystagmus p0195 N79-23652
- KARLSSON, J.**
Phosphorylase a in human skeletal muscle during exercise and electrical stimulation p0067 A79-18962
- KARNAUKHOV, V. N.**
Coacervate drops - Primitive forms of precells p0204 A79-37962
- KARPINSKII, P. G.**
Selecting the program of motions for a biped walking machine p0166 A79-31490
- KARPOVA, L. D.**
Evaluation of oxidizability of air in closed areas p0313 N79-33808
- KARPUSHEVA, V. A.**
Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
- KARTASHEV, A. G.**
Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- KASATKINA, A. G.**
Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- KASATKINA, E. V.**
Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- KASHINTSEV, M. A.**
Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye
- KASUKHIN, L. P.**
Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates p0301 A79-53163
- KATALOV, M. I.**
A method of evaluating the pupillary reaction to vestibular stimuli p0121 N79-17527
- KATKOV, V. E.**
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting p0016 N79-10717

PERSONAL AUTHOR INDEX

KESZTHELYI, L.

- KATKOV, V. Y.
Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system p0127 A79-24634
- KATKOVSKIY, B. S.
Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0245 N79-27831
- KATOVICH, M. J.
Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold p0128 A79-24636
- KATSURA, E.
Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- KAUFMANN, K. J.
In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria p0205 A79-37967
- KAUFMANN, P. G.
Responses of retinal and visual pathway potentials of the guinea pig to nitrogen and helium at high pressure p0131 A79-26100
- KAUMAYER, K.
Results of benthic studies at Calvert Cliffs [PB-294261/3] p0261 N79-29788
- KAY, P. J.
The development of a whole-body algorithm [NASA-CR-160214] p0218 N79-25730
- KAY, L.
A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0045 A79-14602
- KAY, T.
Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0102 A79-23471
- KAZANSKAYA, G. S.
Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- KAZARIAN, L. E.
Spinal injuries in the F/PB-111 crew escape system p0312 N79-33802
- KAZARIAN, L. E.
The validation of biodynamic models p0286 N79-31914
- KAZWACHEYEV, V. P.
New principles of automation of biomedical research p0078 N79-14763
- KEARNS, W.
USAF life support equipment costs p0043 A79-14402
- KEEFE, J. R.
Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104 p0021 N79-11659
- KEEN, R.
Determination of the secondary production and population dynamics of the zooplankton of the Lake Champlain ecosystem [PB-286094/8] p0084 N79-15572
- KEIL, L. C.
Effects of space flight on plasma and glandular concentrations of pituitary hormones p0021 N79-11664
- KELLAR, K. J.
Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain p0162 A79-29925
- KELLEY, R.
Visually estimating workpiece pose in a robot hand using the feature points method p0269 A79-48018
- KELLIHER, J. C.
Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk p0029 N79-11715
- KELLY, D. H.
Motion and vision. I - Stabilized images of stationary gratings p0278 A79-50986
- KELLY, H. B.
The significance of I wave abnormalities p0056 N79-13694
- KELLY, H. A.
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- KELTON, A. A.
Biomedical application in space, pilot program in the southern California region [NASA-CR-160171] p0195 N79-23653
- KENDALL, J. W., JR.
Effects of space flight on plasma and glandular concentrations of pituitary hormones p0021 N79-11664
- KENDALL, W. F., JR.
Biodynamic effects of canopy loss in the TF-15 aircraft p0163 A79-30651
- KENDRICK, J. D.
Estimation of aircraft target motion using pattern recognition orientation measurements p0177 N79-21764
- KENNEDY, K. W.
Reach capability of men and women: A three-dimensional analysis [AD-A060312] p0081 N79-14779
- KENNEY, R. A.
Systolic time intervals during combined hand cooling and head-up tilt p0135 A79-27554
- KEOSTIAN, J.
The crisis in the problem of the origin of life p0207 A79-37982
- KERSTEN, L.
The proto-type wrist joint assembly TACPAW (Triple Axis Common Pivot Arm Wrist), phase 2 [NASA-CR-150885] p0093 N79-15635
- KESSEL, C.
The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156
- KESSEL, C.
The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems p0087 N79-15596
- KESSEL, C.
The effects of participatory mode and task workload on the detection of dynamic system failures p0116 N79-17487
- KESSEL, C.
Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730] p0282 N79-30942
- KESSEL, J. O.
Convective control of long-range coherence in plant growth regulation p0006 A79-12515
- KESSEL, K. H.
Human operator identification model and related computer programs [NASA-CR-152237] p0112 N79-16551
- KESSEL, S.
Quantitative analysis of mating behavior in aging male *Drosophila Melanogaster* p0252 A79-44799
- KESZTHELYI, L.
Quantitative aspects of the effect of weak

- interaction during chemical evolution p0204 N79-37959
- KEVANISHVILI, Z. SH.**
Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation p0159 N79-28735
- Auditory evoked potentials during short-term auditory stimulation p0277 A79-50659
- KEY, K. F.**
Effects of noise frequency on performance and annoyance [NASA-TM-80107] p0241 N79-26781
- KEYSERLING, W. H.**
Isometric strength testing in selecting workers for strenuous jobs p0262 N79-29790
- KHEYZER, L. S.**
Effect of hyperbaric oxygen on peripheral blood neutrophil metabolism p0245 N79-27830
- KHACHIDZE, O. A.**
Auditory evoked potentials during short-term auditory stimulation p0277 A79-50659
- KHALIL, T. M.**
Depth perception and manual control p0038 A79-13207
- KHANDOGA, V. M.**
Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- KHLYVIN, S. M.**
Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
- KHOKHLOVA, O. S.**
Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- KHOMAZIUK, A. I.**
Neural regulation of coronary circulation p0208 A79-38148
- KHOTUTOVA, I. A.**
Regional blood supply under hypoxic hypoxia p0097 A79-20652
- KHOHLA, S. S.**
Fluid shifts during initial phase of immersion diuresis in man p0185 A79-33804
- KHOVOLIS, R. A.**
Bilateral and interhemispheric asymmetry of acoustic evoked potentials during monoaural acoustic stimulation p0159 A79-28735
- KIDD, A. L.**
Texture contours can facilitate stereopsis by initiating vergence eye movements p0270 A79-48816
- KIERWICKI, J.**
Microwave apexcardiography p0231 A79-41848
- KIERWICKI, M.**
Microwave apexcardiography p0231 A79-41848
- KIKOLOV, A. I.**
Mental work and emotions p0002 A79-10847
- KIKTA, P.**
Editing procedure for anthropometric survey data [AD-A060393] p0093 N79-15639
- KIMBALL, R. A.**
The assessment of rotary wing aviator precision performance during extended helicopter flights p0040 A79-13221
- Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a OH-1H helicopter p0063 A79-18215
- An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
- Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640
- Aviator visual performance: A comparative study of a helicopter simulator and the OH-1 helicopter p0153 N79-19652
- KIME, P. W.**
Evolution of the man-machine interface in surveillance radar systems p0001 A79-10322
- KIMZEY, S. L.**
Response of the rat erythrocyte to ozone exposure p0067 A79-18963
- Skylab medical data evaluation program (SMEDEP) [NASA-CR-160279] p0259 N79-28869
- KINDEB, G.**
Effects of brief exposure of domestic fowl to very intense acceleration fields p0127 A79-24631
- KINDRATYeva, L. G.**
Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- KING-SMITH, P. E.**
Detection of coloured stimuli by independent linear systems p0231 A79-42229
- KING, A. I.**
Various modeling approaches in biomechanics p0005 A79-12407
- Anatomical coordinate systems for human body segments p0065 A79-18231
- Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements [ASME PAPER 78-WA/BIO-5] p0069 A79-19759
- Tolerance of the neck to indirect impact [AD-A066971] N79-25749
- Simulation of head and neck response to -G sub x and +G sub z impacts p0285 N79-31908
- KINKEAD, E. R.**
Acute toxicity of a number of chemicals of interest to the Air Force [AD-A067313] p0220 N79-25742
- KINNEY, G. C.**
A controller's eye view of color p0102 A79-23596
- KINNEY, J. M.**
Influence of exercise and CO₂ on breathing pattern of normal man p0237 A79-43704
- KINZLY, R. E.**
Predicting aircraft detectability p0208 A79-38358
- KIRILLOVA, Z. A.**
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- KIRKZEEIDE, R. L.**
Mechanics of blood flow through normal and stenotic coronary arteries p0154 N79-19676
- KIRPOTIN, D. B.**
Coacervate drops as a model for precellular structures p0204 A79-37960
- KIRSCHBAUM, P. J.**
A critically annotated bibliography of the literature on human factors in computer systems [AD-A058081] p0052 N79-12707
- KISELEV, A. A.**
New principles of automation of biomedical research p0078 N79-14763
- Current status and prospects of continued refinement of planning and coordination of scientific medical research p0078 N79-14765
- The systems analytic approach to the problem of classification of scientific medical research p0078 N79-14766
- KISELEV, R. I.**
Effect of radio waves of a millimeter frequency

- range on the body of man and animals p0172 N79-20735
- KISLITSIN, IU. L.
Dynamics of the catalase activity of the blood of athletes under the influence of local decompression p0271 A79-49699
- KISSEN, A. T.
Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0234 A79-43205
- KISSINGER, L. D.
The dependence of the CO₂ removal efficiency of LiOH on humidity and mesh size [ASME PAPER 78-ENAS-5] p0006 A79-12554
- KITABATAKE, A.
A binocular stereoscopic display system for echocardiography p0130 A79-26072
- KITAEV, M. I.
Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- KLASSEN, W.
Radar, Insect Population Ecology, and Pest Management [NASA-CP-2070] p0147 N79-19592
- KLEIN, G.
Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- KLEIN, G. A.
Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216
- Life cycle costing of simulated vs actual equipment for intermediate maintenance training p0064 A79-18217
- KLEIN, H. P.
The Viking biological investigations - Review and status p0100 A79-22083
- Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of Saccharomyces cerevisiae p0162 A79-30125
- COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- KLEIN, K. E.
Space lab and beyond - Bioscience problems in the use of space [DGLR PAPER 78-129] p0041 A79-14081
- KLEIN, M. J.
Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour p0047 A79-15493
- KLEIN, R.
Rhythms in human performance - 1-1/2-hour oscillations in cognitive style p0210 A79-39601
- KLEIN, S.
Direction-selective adaptation with very slow motion p0265 A79-47118
- KLEINER, G. N.
Extended duration Orbiter life support definition [ASME PAPER 78-ENAS-42] p0009 A79-12588
- KLEINHANS, D. L.
Effects of target motion and image on AAA tracking p0046 A79-14969
- Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
- Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- A comparison of motor submodels in the optimal control model p0087 N79-15597
- Closed loop models for analyzing the effects of simulator characteristics p0087 N79-15598
- KLEINSCHUSTER, S. J.
Responses of crown gall tissue to the space environment: Glutamine synthetase activity p0020 N79-11655
- KLEINSTein, B. H.
Biological effects of nonionizing electromagnetic radiation. Volume 2, number 4: A digest of current literature [AD-A055569] p0055 N79-13689
- KLEMENTEV, F. M.
Nonparametric model for the detection of signals observed by a human operator on a CRT screen on a noise background p0159 A79-28565
- KLIACHKIN, L. M.
Myocardial infarction in young men p0188 A79-35137
- KLIMOVSKAYA, L. D.
Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- KLIMUK, P. I.
The cosmonaut in flight [NASA-TT-F-17438] p0032 N79-11729
- KLINESTIVER, L.
Methodology to assess psychological stress and its impact in the air combat environment [AD-A053474] p0057 N79-13707
- KLINGAMAN, E. L.
Light adaptation in a normal and a rod monochromat - Psychophysical and VEP increment threshold comparisons p0232 A79-42234
- KLINGER, A.
An operator-aiding manipulator control system p0269 A79-48020
- KLINGER, K. P.
Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971] p0080 N79-14774
- KLOCER, T. E.
Human factors evaluation of the AN/UYQ-21 display console [AD-A056383] p0020 N79-10743
- KLOEK, G.
Reproductive adaptation in Drosophila exposed to oxygen-enriched atmospheres p0164 A79-30657
- KLOEZE, J.
Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation p0239 N79-26765
- KLUKOWSKI, K.
Preliminary selection of candidates for space flights [IAF PAPER 79-83] p0302 A79-53289
- KNAPIK, J.
Instrumentation and techniques for the measurement of muscular strength and endurance in the human body [AD-A061023] p0155 N79-19681
- KNAPP, C. P.
Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration p0162 A79-29728
- Modification of cardiac function by synchronized oscillating acceleration p0278 A79-50908
- Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
- The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845
- KNAPP, S. C.
Effect of fiber and dye degradation products /FDP/ on burn wound healing p0298 A79-52277
- Operational Helicopter Aviation Medicine [AGARD-CP-255] p0148 N79-19605
- Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis p0153 N79-19662

- A porcine bioassay study of the physiological effects of fiber and dye degradation products (FDP) on burn wound healing [AD-A066990] N79-25748
- Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946] p0223 N79-25766
- KNELSON, J. H.**
The effects of H₂SO₄ on men and H₂SO₄ and O₃ on laboratory animals p0141 N79-18354
- KNIPLING, E. F.**
Strategic and tactical use of movement information in pest management p0148 N79-19597
- KNOCH, H.**
Night rescue operation procedure over sea with bell UH-1D helicopters p0148 N79-19609
- Backache in UH-1D helicopter crews p0149 N79-19620
- KNOOP, P. A.**
Survey of human operator modeling techniques for measurement applications [AD-A058327] p0058 N79-13713
- KNOX, P. S., III**
Effect of fiber and dye degradation products /FDP/ on burn wound healing p0298 A79-52277
- Bioassay of thermal protection afforded by candidate flight suit fabrics p0298 A79-52280
- Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis p0153 N79-19662
- A porcine bioassay study of the physiological effects of fiber and dye degradation products (FDP) on burn wound healing [AD-A066990] N79-25748
- Evaluation of four thermally protective fabrics using the USAARL bioassay method [AD-A067351] p0223 N79-25762
- Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946] p0223 N79-25766
- KNYSHOV, G. V.**
Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- KO, W. W. H.**
Responses of teachers to aircraft noise p0103 N79-23881
- KO, W. H.**
Single frequency RF powered ECG telemetry system p0131 A79-26074
- KOBAYASHI, K.**
Sulfate-reducing bacteria and biochemical evolution p0205 A79-37967
- KOBAYASHI, Y.**
Effects of regional hemoconcentration during LBNP on plasma volume determinations p0265 A79-47326
- Specialized physiological studies in support of manned space flight [NASA-CR-151876] p0111 N79-16542
- KOBIZSKYI, V. I.**
Magnetic field effect on radial processes in biological membranes p0172 N79-20737
- KOBOZEV, G. V.**
Some forms of adaptation to extreme influences in the blood system p0256 A79-46679
- KOBRECK, J. L.**
New inventory for the assessment of symptom occurrence and severity at high altitude p0273 A79-49991
- KOBRINSKII, A. A.**
The mechanical properties of manipulation systems p0231 A79-42017
- ROBZEV, Y. A.**
Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- KOBZEEVA, L. I.**
Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
- Liberation of carbon monoxide by man when working in protective gear p0076 N79-14748
- Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research p0109 N79-16528
- KOCH, C.**
Evaluation of aircrew fatigue during operational helicopter flight mission p0149 N79-19622
- KOCHER, D. C.**
Dose-rate conversion factors for external exposure to photon and electron radiation from radionuclides occurring in routine releases from nuclear fuel cycle facilities [NUREG-CR-0494] p0259 N79-28873
- KOCHETOV, A. K.**
Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
- KODAMA, A. M.**
Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713
- KOEHLER, S.**
Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness p0030 N79-11721
- KOJIMA, G. K.**
Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] p0144 N79-18580
- KOK, B.**
Photochemistry and enzymology of photosynthesis [COO-3326-70] p0239 N79-26763
- KOK, J. J.**
Evaluation of models describing human operator control of slowly responding complex systems p0167 A79-31494
- A model of the human supervisor p0117 N79-17495
- KOLBANOV, V. V.**
Dynamical characteristics of visual functions p0276 A79-50656
- Restoration of color perception after deadapting flashes p0193 N79-23640
- KOLCHINA, Y. V.**
Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
- KOLESINA, N. B.**
Microflora of water reclaimed in sealed compartments p0193 N79-23638
- KOLESNIKOV, M. P.**
Metal porphyrins in pre-Cambrian deposits as a probable evidence for early photosynthesis p0165 A79-30695
- KOLGANOVA, L. I.**
Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
- KOLGANOVA, N. S.**
Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823

- KOLIAGIN, V. IA.
Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
- KOLOSOV, V. A.
Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
- KOLTSOV, A. N.
Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
- KOMENDANTOV, G. L.
Third Symposium on Motion Sickness p0313 N79-33814
- KOMOCHKOV, M. M.
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- KOMOLOVA, G. S.
Influence of high-altitude conditions on the metabolism of nucleic acids and proteins in the thymocytes of the rat p0069 A79-19425
3'-5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite p0014 N79-10702
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- KONDRAKOV, V. M.
Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
- Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
- KONDRAHOW, N. G.
Thermal effects during the exposure of ocular fundus tissues to laser radiation p0234 A79-43057
- KONDRATEVA, E. M.
Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- KONDRATEVA, E. N.
The utilisation of organic compounds by purple bacteria in the presence of light [BLL-RTS-11203] p0141 N79-18556
- KONDRATYEV, A. N.
The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- KONTOS, H. A.
Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0101 A79-23075
- KOONCE, J. M.
Predictive validity of flight simulators as a function of simulator motion p0181 A79-32627
- KORBUT, V. L.
Adaptive optimization of exchange of gases in plants in a sealed phytotron p0313 N79-33806
- KORCHAK, G. I.
Microflora of water reclaimed in sealed compartments p0193 N79-23638
- KORDIUM, E. L.
Influence of orbital flight conditions on formation of genitals in *Muscari racemosum* and *Anethum graveolens* p0230 A79-41718
- KORDIUM, V. A.
Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- KORENEV, G. V.
Goal-directed mechanics of controlled manipulators p0275 A79-50447
- KORFF, S. A.
Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631
- KORIUKIN, V. E.
Changes in optokinetic, postoptokinetic, and reverse postoptokinetic nystagmus after bilateral labyrinthectomy p0255 A79-46499
- KORN, J.
Visual cues in manual tracking of simulated targets p0103 A79-23792
Modeling human tracking performance in a high G-stress environment p0269 A79-48012
Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- KORNBERG, J. P.
Health maintenance and health surveillance considerations for an SPS space construction base community [AAS PAPER 78-176] p0099 A79-21273
- KOROLENKO, TS. P.
Human psychophysiology in extremal conditions p0048 A79-15977
- KOROLEV, V. V.
Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
- KOROLKOV, V. I.
Compensatory reactions of the kidneys to orthostatic factors p0015 N79-10708
- KORZHENYANTS, V. A.
Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
- KORZHUEV, P. A.
Information on the comparative physiology of digestive enzymes [BLL-RTS-11203] p0142 N79-18572
- KOSHTOYANTS, K. S.
Information on the comparative physiology of digestive enzymes [BLL-RTS-11203] p0142 N79-18572
- KOSTELINETS, M. B.
Experimental investigation of the visual system using one-dimensional Walsh gratings p0160 A79-29249
- KOSTIS, J. B.
A catheter flow probe for measurement of left ventricular source parameters p0274 A79-50108
- KOTOVSKIY, Y. F.
Effect of acute hypoxia on some parameters of renal excretory function and renal hemodynamics p0245 N79-27828
- KOTTARCHYK, E.
Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria p0233 A79-42448
- KOU, R. S.
AAA gunnermodel based on observer theory p0087 N79-15594
- KOVACHEVICH, I. V.
The adrenosympathetic system in the presence of traumatic shock during simulation of effects of weightlessness on the human body p0192 N79-23633
- KOVAL, V. G.
Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- KOVALENKO, E. A.
Paradoxical reaction of some intracellular antioxidative defense mechanisms during adaptation of the organism to hypoxia p0165 A79-30696
- KOVALEV, E. E.
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
- KOVALEV, N. M.
Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733

KOVALEV, O. A.		p0228 A79-41703
Regional blood supply under hypoxic hypoxia	p0097 A79-20652	
KOVALEV, I. Y.		
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582]	p0071 N79-14711	
KOVITZ, K. L.		
Hemodynamics in teenagers and asthmatic children during exercise	p0133 A79-27102	
KOWAL, D. M.		
Sustained operations and sleep deprivation - Effects on indices of stress	p0009 A79-12859	
Physiological effects of a military training program on males and females [AD-A062936]	p0220 N79-25744	
KOWLER, E.		
The effect of expectations on slow oculomotor control. I - Periodic target steps. II - Single target displacements	p0225 A79-40185	
KOZERENKO, O. P.		
Control of vertical position after flights aboard the Salyut-4 orbital station	p0311 N79-33793	
KOZHARINOV, V. I.		
Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method	p0015 N79-10707	
KOZHEMIAKIN, L. A.		
Cyclic nucleotides and adaptation of the organism	p0133 A79-26500	
KOZICKI, V. M.		
Radio tracking of a fin whale /Balaenoptera physalus/	p0061 A79-18008	
KOZLOVA, M. V.		
Current conceptions of the mechanism of the effect of chemical stimulus on taste receptors	p0043 A79-14375	
KOZYARIN, I. P.		
State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field	p0075 N79-14742	
KOZYREVSKAYA, G. I.		
Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station	p0243 N79-27819	
Fluid-electrolyte metabolism in the crew of Salyut-4	p0311 N79-33792	
KRAFT, C. L.		
Windshield quality and pilot performance measurement utilizing computer-generated imagery	p0137 A79-28165	
KRAFT, L. M.		
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study	p0252 A79-44798	
Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report	p0021 N79-11662	
KRAHENBULL, G. S.		
Stress and simulation in pilot training [AD-A066670]	p0222 N79-25757	
KRAMP, K.		
Experiences of a payload specialist involved with the simulated Spacelab Mission ASSESS II [DGLR PAPER 78-183]	p0070 A79-20024	
KRAMDA, K.		
Detection of coloured stimuli by independent linear systems	p0231 A79-42229	
KRASNOVA, A. I.		
Interaction between hypothalamic and bulbar levels of regulating blood circulation	p0098 A79-21242	
KRAUSS, R. W.		
Closed ecology in space from a bioengineering perspective		
KRAUZE, E. G.		
Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylcyclase and phosphodiesterase systems in the myocardium		p0255 A79-46500
KRAVETS, V.		
Salyut-6-Soyuz-29: Our commentary, the crew and the station [NASA-TM-75393]		p0174 N79-20745
KREKELER, H.		
Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute [DLR-FB-78-10]		p0280 N79-30925
KREMEN, M. A.		
Psychological aspects of the human-operator's activity while tracking [RAE-LIB-TRANS-1979]		p0079 N79-14768
KRESSIN, J.		
Aviation-medicine appraisal as part of the fitness regulations in transportation		p0129 A79-25373
Sources of noise stress on flying personnel		p0227 A79-41169
KRIKORIAN, A. D.		
The morphogenetic responses of cultured totipotent cells of carrot (<i>Daucus carota L.</i>) at zero gravity		p0021 N79-11657
KRIMKEVICH, E. I.		
Circadian rhythm of electrolyte uremia in healthy persons		p0257 A79-46681
KRING, G.		
The Spacelab flight unit environmental control/life support system [ASME PAPER 78-ENAS-14]		p0007 A79-12563
KRISHNAMURTHI, S.		
Obesity and flying fitness		p0182 A79-33188
KRISHNAMURTI, S.		
Aerobiotelemetry from a fighter aircraft		p0200 A79-37131
Influence of Beta-Blockade on asymptomatic ST-T wave changes - A follow up study		p0201 A79-37137
KRIVENKOVA, M. P.		
Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man		p0192 N79-23634
KROEMER, K. H. E.		
Human factors analysis of visual distress signaling devices [AD-A064174]		p0190 N79-22765
KROWAUER, R. E.		
Apparent saturation of blue-sensitive cones occurs at a color-opponent stage		p0002 A79-10474
KROPP, K. D.		
Microflora analysis of a child with severe combined immune deficiency		p0004 A79-11900
KRUEDER, A. G.		
Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122]		p0052 N79-12706
Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521]		p0081 N79-14780
KRUEDER, G. P.		
Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator		p0151 N79-19638
KRUGER, G. P.		
US Army aviation fatigue-related accidents, 1971-1977 [AD-A062486]		p0171 N79-20725
KRUGER, R. A.		
Real-time computerized fluoroscopic cardiac imaging		p0294 A79-51035
KRUMHAR, K. C.		
Developing closed life support systems for large space habitats [AAS PAPER 78-145]		p0099 A79-21260
KRUSZYNA, R.		
Hemoglobinemia in rats exposed to high altitude is not due to an overload of catabolic mechanisms		p0101 A79-23467

- KRYLOVA, N. V.
On the man's adaptation to the operator's work under stressful conditions of space flight
[IAF PAPER 78-A-56] p0003 A79-11345
- Psychological training - One of the most important factors of enhancing the safety of space flights [IAF PAPER 79-A-24] p0303 A79-53426
- KUBAL, W.
Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- KUBOZONO, A.
Selection, training, and health care of working specialists for Shuttle/Spacelab and future space station missions [IAF PAPER 79-99] p0303 A79-53297
- KUDRYASHOVA, Z. M.
Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation p0192 N79-23632
- KUEHN, L.
Measurement of skin temperatures of active subjects by wireless telemetry p0011 A79-12872
- KUEHN, L. A.
Similarity in the number of lifespan heartbeats among non-hibernating homeothermic animals p0298 A79-52281
- KUHN, C.
Evolution of a genetic code simulated with the computer p0100 A79-22081
- KUHN, H.
Evolution of a genetic code simulated with the computer p0100 A79-22081
- KUHN, W. R.
The response of selected terrestrial organisms to the Martian environment - A modeling study p0136 A79-27928
- KUKULKA, C. G.
Recruitment and discharge properties of motor units in human brachial biceps and adductor pollicis during isometric contractions p0216 N79-25708
- KURKUSHKIN, Iu. A.
Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
- KULIKOV, G. A.
Role of the frontal associative region of the cortex in the activity of the auditory and visual sensory systems p0043 A79-14371
- KULIKOV, O. B.
Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- KULIKOV, V.
Medical science in Siberia: Oxygen exchange in the Far North [NASA-TM-75391] p0211 N79-24630
- KULIKOV, V. V.
Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
- Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
- KUBAR, V.
Effects of partial sleep deprivation on psychological performance and behaviour p0200 A79-37130
- Design, fabrication and utility of a flight oriented performance test p0271 A79-49728
- KUNICK, I.
Uncommon hypersensitivity to contacting cold water and cold air with propagated reflex-like erythema development [BLL-RTS-11644] p0279 N79-30917
- KUNIEWICZ, R.
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration p0229 A79-41704
- KUNZRU, G. W.
Assessment of burns in accident fatalities p0272 A79-49729
- Delayed effects of alcohol ingestion on + Gz tolerance p0272 A79-49730
- KUPCHINSKII, R. A.
Myocardial infarction in young men p0188 A79-35137
- KUPERMAN, A. M.
Experimental investigation of the visual system using one-dimensional Walsh gratings p0160 A79-29249
- KUPERMAN, G. G.
Imagery interpreter performance in the comparison of subjective estimates of photographic image quality p0036 A79-13191
- Refinement of a computer simulation model for evaluating DAIS display concepts p0038 A79-13209
- Real-time reconnaissance systems simulator p0139 A79-28175
- KUPRIIANOV, A. A.
Evaluation of physiological indices during preflight medical examination of pilots p0188 A79-35138
- KURBJUN, M. C.
Flight management research utilizing an oculometer p0001 A79-10389
- KURIHARA, Y.
Vigilance and electroencephalogram p0100 A79-22975
- Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- Analysis of electroencephalogram during psychomotor performance p0209 A79-38820
- KURKINA, L. B.
Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
- KURODA, I.
Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- KUSTOV, V. V.
The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- KUZHIN, M. P.
Antiorthostatic hypokinesia as an approximate model of weightlessness p0108 N79-16520
- KUZNETSOV, P. I.
Mathematical model of the respiration rhythm generation process p0254 A79-46268
- KUZNETSOV, V. N.
Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
- KUZNETSOVA, M. A.
Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- KVALSETH, T. O.
Digital man-machine control systems - The effects of preview lag p0131 A79-26149
- Test of the 10 bits/sec channel-capacity hypothesis for human tracking p0253 A79-45771
- KVETNYANSKI, R.
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- L**
- LABUTSKII, A. K.
Possibility of quantitative evaluation of the heart's mechanical activity from seismocardiosignals p0276 A79-50658

- LACELLE, P. L.**
Studies of metabolism, function and mechanism of destruction of red cells [AD-A070240] p0315 N79-33828
- LACHENMAYER, B.**
The peripheral critical flicker frequency p0271 A79-49482
- LACKNER, J. R.**
Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements p0135 A79-27558
- Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
- Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness p0165 A79-30662
- LACOMBE, E. H.**
Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- LAFFERTY, J. F.**
Dynamic response of vertebral elements related to USAF injury [AD-A059489] p0071 N79-14713
- LAHAV, M.**
Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide p0162 A79-29938
- LAI-POOK, S. J.**
Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702
- Distribution of regional volumes and ventilation in excised canine lobes p0236 A79-43703
- LAIB, G. R.**
Investigation of techniques to reduce electrostatic discharge susceptibility of EED's containing plastic plugs [AD-A059982] p0093 N79-15638
- LAITINEN, L. A.**
Scanning and transmission electron microscopy of the blood-bubble interface in decompressed rats p0266 A79-47333
- LAMB, M. J.**
U.S. Navy development of an on-board oxygen generation /OBOG/ system p0183 A79-33634
- Environmental test and evaluation of a molecular sieve on-board oxygen generation system [AD-A061531] p0125 N79-17559
- US Navy development of an On-Board Oxygen Generation (OBOG) system [AD-A063958] p0197 N79-24656
- LAMBA, S. S.**
Microbial transformation of nucleosides [NASA-CR-158696] p0197 N79-25704
- LAMBDDIN, D. L.**
Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4] p0241 N79-26779
- Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4] p0241 N79-26779
- LAMBERTSEN, C. J.**
Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics p0133 A79-27105
- LAMBOU, V. W.**
Distribution of phytoplankton in Arkansas lakes [PB-292742/4] p0240 N79-26768
- LAMBSON, K. H.**
Spine immobilization method and apparatus [NASA-CASE-ARC-11167-1] p0279 N79-30921
- LANCASTER, M. C.**
A prospective medicine approach to the problem of ischemic vascular disease in the USAF p0027 N79-11697
- Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0028 N79-11705
- Specific findings in cardiology and pulmonary function with special emphasis on assessment criteria for flying p0171 N79-20731
- LANCASTER, M. P.**
Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- LANCRAFT, R. E.**
A comparison of motor submodels in the optimal control model p0087 N79-15597
- LANDAW, S. A.**
Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
- Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- LANGE, R. D.**
Erythropoietic effects of space flight p0231 A79-42193
- LANGERHOLC, J.**
Moving phase transitions in laser-irradiated biological tissue p0228 A79-41478
- LANGLEY, C. H.**
Are evolutionary rates really variable p0232 A79-42273
- LANGWORTHY, T. A.**
Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
- LAPYK, J. K.**
Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for sodium ions in Halobacterium halobium - Translocation stoichiometries and apparent cooperativity p0002 A79-10425
- Relationship between proton motive force and potassium ion transport in Halobacterium halobium envelope vesicles p0227 A79-40775
- Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
- Light-driven solute transport in Halobacterium halobium p0270 A79-49194
- Energy transduction in Halobacterium halobium p0300 A79-53000
- LAPA, V. V.**
Dynamics of impairment of pilot performance in the presence of hypoxia p0073 N79-14724
- LAPAEV, E. V.**
Effects of vestibular stimuli on the electrical activity of muscles p0187 A79-35121
- LAPAYEV, E. V.**
A method of evaluating the pupillary reaction to vestibular stimuli p0016 N79-10717
- LAPSHINA, N. A.**
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- LAPTEVA, R. I.**
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting p0127 A79-24634
- LARIN, V. B.**
Stabilization of the horizontal motion of a bipedal walking robot p0251 A79-44081
- Stabilization of a biped walking machine with incomplete information on its phase coordinates p0273 A79-49879
- LARIN, V. L.**
Regional blood supply under hypoxic hypoxia

- LARKIN, E. C. p0097 A79-20652
Response of the rat erythrocyte to ozone exposure p0067 N79-18963
- LARRY, C. p0070 A79-25747
The effects of pilot age, lighting, and head-down time on visual accomodation [AD-A064912]
- LARUSSA, J. A. p0138 A79-28172
The holographic Pancake Window
- LASALA, K. P. p0047 A79-15400
Man-machine reliability - A practical engineering tool
- LASKIN, G. M. p0300 A79-53066
The role of lesser circulation hemodynamic changes in pulmonary gas exchange
- LATEGOLA, M. T. p0127 A79-24628
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances
- A lower body negative pressure box for +Gz simulation in the upright seated position [AD-A069326] p0259 N79-28868
- LATTIMER, J. R. p0102 A79-23783
Linearization and sensitivity analysis of model for human eye movements
- LAU, C. G. Y. p0050 N79-12692
Modeling of visual-vestibular interaction and the fast components of nystagmus
- LAUBACH, L. L. p0032 N79-11734
Anthropometric source book. Volume 1:
Anthropometry for designers [NASA-RP-1024]
- Range of joint motion p0032 N79-11737
- Human muscular strength p0033 N79-11740
- LAUCHLI, A. p0175 N79-21744
Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611]
- LAUGHLIN, M. H. p0010 A79-12865
Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis
- Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714
- LAURENT, G. J. p0151 N79-19632
Human factor engineering test and evaluation of the US Navy LAMPS helicopter system
- LAUTA, A. D. p0251 A79-43835
The role of the neurohormone system of the hypothalamus in physiology and pathology
- LAVER, M. B. p0185 A79-33808
Effects of chronic changes in hemoglobin-O₂ affinity in rats
- LAVERDANT, C. p0104 A79-23958
A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures
- LAVESON, J. I. p0040 A79-13218
NASA flight management research
- LAVY, S. p0135 A79-27557
Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures
- LAWSON, S. M. p0065 A79-18231
Anatomical coordinate systems for human body segments
- LAWWILL, T. p0017 N79-10726
Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449] p0056 N79-13698
- LAZZARA, R. p0130 A79-26073
The effects of filtering the His-Purkinje system electrocardiogram
- LE CROISSETTE, D. H. p0294 A79-51039
Signal processing in ultrasound
- LEACH, C. S. p0002 A79-11220
A review of the consequences of fluid and electrolyte shifts in weightlessness [IAF PAPER 78-50]
- LEACHTBAUER, J. C. p0068 A79-18996
Peripheral acuity and photointerpretation performance
- LEAFFER, D. p0022 N79-11669
Cosmic ray effects on the eyes of rats flown on COSMOS 782
- LEANCA, M. p0099 A79-22078
Porphyrin-like compounds genesis under simulated abiotic conditions
- LEATHERWOOD, J. D. p0156 N79-19685
A model for predicting human discomfort response to combined noise and vertical vibration
- Human discomfort response to noise combined with vertical vibration [NASA-TP-1374] p0190 N79-22761
- Discomfort criteria for single-axis vibrations [NASA-TP-1422] p0196 N79-23662
- Effect of helicopter noise on passenger annoyance [NASA-TM-80106] p0241 N79-26782
- LEAV, I. p0266 A79-47335
Increased survival in experimental dog heatstroke after reduction of gut flora
- LEBEDEV, V. M. p0098 A79-20669
Atlas of the dose characteristics of external ionizing radiation /Handbook/
- LEBEDEVA, E. S. p0300 A79-53066
The role of lesser circulation hemodynamic changes in pulmonary gas exchange
- LEBEDEVA, V. A. p0043 A79-14375
Current conceptions of the mechanism of the effect of chemical stimulus on taste receptors
- LEBEL, J. L. p0294 A79-51033
The development of a digital video subtraction system for intravenous angiography
- LECLERC, L. F. p0185 A79-33808
Effects of chronic changes in hemoglobin-O₂ affinity in rats
- LECROART, J. L. p0102 A79-23474
Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m
- LEDBETTER, D. C. p0293 A79-51030
Computer quantitation of coronary angiograms
- LEDRU, C. p0102 A79-23474
Thermal sweat rate response to an acute short exposure at a simulated altitude of 4,600 m
- LEE, C. S. P. p0161 A79-29540
A fluid-mechanical study of the closure of heart valves
- LEE, H. K. p0261 N79-28883
Technology advancement of an oxygen generation subsystem [NASA-CR-152257]
- LEE, H. W. p0261 N79-29789
A stochastic model of muscle fatigue in frequent strenuous work cycles
- LEE, P. P. K. p0017 N79-10726
Noninvasive ultrasonic blood flow characterization
- LEE, R. p0261 N79-29789
Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment

- K-207 p0024 N79-11678
- LEE, R. D. Biomedical ultrasonoscope [NASA-CASE-ARC-10994-2] p0240 N79-26771
- LEE, S. S. Assessment of human exposures to atmospheric benzene [PB-284203/7] p0051 N79-12701
- LEEBERK, H. J. Some ergonomic aspects of adapting workrooms with visual display units to the human possibilities [IZF-1978-1] p0125 N79-17562
- LEES, M. A. The assessment of rotary wing aviator precision performance during extended helicopter flights p0040 A79-13221
- An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
- Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640
- Aviator visual performance: A comparative study of a helicopter simulator and the UH-1 helicopter p0153 N79-19652
- LEET, D. G. Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903
- LEFEVERE, A. Simulated EVA operation of a remote connector assembly test report [NASA-CR-161167] p0156 N79-19687
- LEGGE, G. E. Spatial frequency masking in human vision - Binocular interactions p0232 A79-42284
- LEGUAY, C. Mitral prolapse and acceleration p0103 A79-23951
- LEGUAY, G. Selection of astronaut candidates - Contribution of the exercise ECG and spirography p0047 A79-15489
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His p0103 A79-23955
- Pneumothorax and flight personnel p0103 A79-23956
- The application of vectorcardiography to aerospace medicine p0256 A79-46602
- Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs p0028 N79-11707
- Cardiac conduction and aptitude problem of fliers. The benefits of endocardial recording of the His bundles p0030 N79-11716
- The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers p0030 N79-11718
- LEHMANN, E. J. The toxicology of ozone. A bibliography with abstracts [NTIS/PS-78/1120/1] p0057 N79-13705
- LEHTO, V.-P. Scanning and transmission electron microscopy of the blood-bubble interface in decompressed rats p0266 A79-47333
- LEIBRECHT, B. C. Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888] p0055 N79-13692
- LEISEY, S. A. Air Force female pilots program: Initial performance and attitudes [AD-A065641] p0241 N79-26783
- LEISMAN, G. Perceptual localization, feature identification and ocular motor factors in scanning a visual display p0064 A79-18218
- Oculomotor factors in visual perceptual response efficiency p0209 A79-38361
- LEJEUNE, F. E., JR. Laryngeal problems in space travel p0011 A79-12870
- LELEKOV, N. G. Temperature effect of muscular work in the white rat during hypoxia p0097 A79-20654
- LEMAIRE, M. Increased survival in experimental dog heatstroke after reduction of gut flora p0266 A79-47335
- LEMDA, J. A. Manned maneuvering unit: User's guide [NASA-CR-151864] p0113 N79-16553
- LENNIE, P. Saccadic eye movements and visual stability p0035 A79-13075
- LENTZ, J. M. Motion sickness susceptibility - A retrospective comparison of laboratory tests p0010 A79-12861
- Visual-vestibular interactions. I - Influence of peripheral vision on suppression of the vestibulo-ocular reflex and visual acuity p0135 A79-27552
- LEON, H. A. Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
- Effect of weightlessness and centrifugation (LIG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- LEOWARD, J. I. Validation of a model for investigating red cell mass changes during weightlessness [NASA-CR-160188] p0211 N79-24634
- User's instructions for the 41-node thermoregulatory model (steady state version) [NASA-CR-160220] p0212 N79-24638
- Systems identification and application systems development for monitoring the physiological and health status of crewmen in space [NASA-CR-160235] p0212 N79-24642
- The application of sensitivity analysis to models of large scale physiological systems [NASA-CR-160228] p0213 N79-24645
- Development of an hypothesis for simulating anti-orthostatic bed rest [NASA-CR-160200] p0217 N79-25717
- Dynamic regulation of erythropoiesis: A computer model of general applicability [NASA-CR-160203] p0217 N79-25720
- Study report on modification of the long term circulatory model for the simulation of bed rest [NASA-CR-160186] p0218 N79-25727
- Improvements and validation of the erythropoiesis control model for bed rest simulation [NASA-CR-160187] p0218 N79-25728
- Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm [NASA-CR-160232] p0218 N79-25729
- User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735
- The application of systems analysis and mathematical models to the study of erythropoiesis during space flight [NASA-CR-160218] p0219 N79-25739
- LEONTeva, G. A. Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- LEOPOLD, H. S. Investigation of techniques to reduce electrostatic discharge susceptibility of EED's

- containing plastic plugs
[AD-A059982] p0093 N79-15638
- LEPSKIY, A. A.
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720
- LERMER, R. M.
Diffraction-based characterization of biological tissue with ultrasound p0054 N79-13683
- LESHCHENKO, M. M.
Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
- LESKOV, A. G.
Control systems for robots and manipulators p0134 A79-27303
- LEUNG, S.
Human health damages from mobile source air pollution: A delphi method, volume 1 [PB-288319/7] p0145 N79-18585
- Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2 [PB-288320/5] p0145 N79-18586
- LEUSHINA, L. I.
Training of visual recognition p0160 A79-29250
- LEVASHOV, O. V.
Elements of the theory of biological analyzers p0132 A79-26450
- LEVASSEUR, J. E.
Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0101 A79-23075
- LEVER, M. J.
Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics p0133 A79-27105
- LEVERETT, S. D., JR.
Physiological effect of high, sustained +Gz forces on man p0229 A79-41711
- LEVINE, M. S.
Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
- LEVINE, S. H.
An Air Combat Effectiveness Study /ACES/ program p0040 A79-13222
- LEVISON, W. H.
Application of control theory to the investigation of roll motion effects on pilot control behavior [AD-A054921] p0046 A79-14972
- A model for the pilot's use of roll-axis motion cues in steady-state tracking tasks [AD-A059504] p0079 N79-14772
- Evaluation of display and control concepts for a terminal configured vehicle in final approach in a windshear environment p0090 N79-15616
- Use of the tilt cue in a simulated heading tracking task p0091 N79-15621
- Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- LEVKOVICH, IU. I.
The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/ p0208 A79-38150
- A cinematographic technique for investigating some aspects of visual recognition p0300 A79-53067
- LEVY, J.
Polyglutaraldehyde - A new reagent for coupling
- proteins to microspheres and for labeling cell-surface receptors p0274 A79-50230
- LEWINN, E. B.
The child in coma p0094 N79-15890
- The control and prevention of seizures in children, a developmental and environmental approach p0094 N79-15892
- LEWIS, C. H.
Mechanisms of the effects of vibration frequency, level and duration on continuous manual control performance p0299 A79-52327
- The biodynamic response of the human body and its application to standards p0288 N79-31929
- LEWIS, C. J. G.
Light weight solid state helmet symbol display and position system p0046 A79-15177
- LEWIS, G. W.
Multifunctional transducer [NASA-CASE-NPO-14329-1] p0219 N79-25737
- Hemispheric asymmetry as related to pilot and radar intercept officer performance [AD-A068087] p0289 N79-31935
- LEWIS, J. L., JR.
Operator performance and localized muscle fatigue in a simulated space vehicle control p0214 N79-24653
- Operator performance and localized muscle fatigue in a simulated space vehicle control task [NASA-TM-58220] p0259 N79-28867
- LEWIS, M. A.
A comparison of three models for determining test fairness [AD-A066586] N79-25751
- The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection [FAA-AM-78-36] N79-25752
- The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices [AD-A068581] p0281 N79-30932
- LEWIS, M. F.
Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators p0297 A79-52276
- LEWIS, R. A.
Adaptive control of a robotic manipulator p0046 A79-15001
- LEWYCKIJ, J. Z.
Development of integrated tubing fabric for liquid conditioning undergarments p0044 A79-14415
- Development of the CWU-48/P high temperature resistant aramid knit flyer's coverall [AD-A059128] p0059 N79-13716
- LIBERT, J. P.
Human skin wettedness and evaporative efficiency of sweating p0162 A79-29726
- Effect of rate of change in skin temperature on local sweating rate p0268 A79-47853
- LICHTMAN, M. A.
Studies of metabolism, function and mechanism of destruction of red cells [AD-A070240] p0315 N79-33828
- LIEBERMAN, J. R.
Applications of chlorophyll fluorescence transient measurements to the functional analysis of photosynthetic processes p0243 N79-27813
- LIEBERMEISTER, C.
Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon dioxide production during fever and its relationship with heat production [NASA-TM-75452] p0211 N79-24632
- LIGHT, E. S.
Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631

- LIN, C. Y.**
COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- LIN, J. C.**
Microwave apexcardiography p0231 A79-41848
Studies on the microwave-induced auditory effect [PB-290598/2] p0213 N79-24648
- LIN, H.-T.**
Studies on thermoregulation in the rat p0162 A79-30019
- LIN, Y. C.**
Doppler detection of thresholds for decompression-induced venous gas emboli in the awake rat p0202 A79-37707
- LINDBERG, E. K.**
An adaptive controller which displays human operator limitations for a fighter type aircraft p0177 N79-21767
- An adaptive controller which displays human operator limitations for a fighter type aircraft [AD-A066193] p0223 N79-25763
- LINDSTROEM, G.**
Method and arrangement for the preparation of solid foodstuffs for long-term storage [BLL-RTS-11445] p0145 N79-18590
- LINSEHAN, J. H.**
Lung inflation and longitudinal distribution of pulmonary vascular resistance during hypoxia p0277 A79-50905
- LINN, W. S.**
Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
- LINNIK, L. A.**
Thermal effects during the exposure of ocular fundus tissues to laser radiation p0234 A79-43057
- LINTERN, G.**
Transfer of landing skill after training with supplementary visual cues p0138 A79-28167
- LINTON, P. M.**
Human factor engineering test and evaluation of the US Navy LANPS helicopter system p0151 N79-19632
- LINZER, H.**
Ultrasonic tissue characterization II [PB-296356/9] p0316 N79-33836
- LIONETTI, F. J.**
Temperature effects on shape and function of human granulocytes [AD-A063750] p0189 N79-22757
- LIPPAY, A. L.**
Manned simulations of the SRMS in SIMPAC p0089 N79-15611
Multi-axis hand controller for the shuttle remote manipulator system p0117 N79-17503
- LISHCHUK, V. A.**
The role of computer technology mathematical models in treatment of patients following heart surgery p0170 N79-20721
- LISHER, B. J.**
The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +Gsub z acceleration [FPRC-1362] p0248 N79-27856
The effect of acceleration and seat back angle on performance of a reaction time task [FPRC-1364] p0248 N79-27857
- LISS-SUTER, D.**
A literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it [AD-A056018] p0025 N79-11686
A literature review-problem definition studies on selected toxic chemicals. Volume 8: Environmental aspects of diesel fuel and fog oils SGF number 1 and SGF number 2 and smoke screens generated from them [AD-A056021] p0025 N79-11688
- LITOVS, R. E.**
Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation p0067 A79-18965
- LITSOV, A. M.**
Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0109 N79-16526
- LITTKE, W.**
The growth of single crystals from proteins in gravity-free space [AIAA PAPER 79-0311] p0069 A79-19665
- LITVINNOVA, E. G.**
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- LIU, G.-G.**
Studies on thermoregulation in the rat p0162 A79-30019
- LIU, K.-C.**
Minute tubular forms in soil p0297 A79-51698
- LIUBINSKII, I. A.**
Elements of the theory of biological analyzers p0132 A79-26450
- LIVANOVA, I. A.**
Genetic effects of cosmic radiation on bacteriophage T4Br/+//On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- LIVINGSTONE, S. D.**
Skin temperature changes in paradoxical sleep in man in the cold p0201 A79-37706
- Similarity in the number of lifespan heartbeats among non-hibernating homeothermic animals p0298 A79-52281
- LIVSHITS, N. N.**
Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- LLOYD, A. J.**
Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888] p0055 N79-13692
- LOAN, P.**
Value and limits of the electrocardiogram in aviation medicine evaluations p0048 A79-15495
- LOECKER, T. H.**
Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- LOEPPKY, J. A.**
Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
- Effects of regional hemoconcentration during LBNP on plasma volume determinations p0265 A79-47326
- Specialized physiological studies in support of manned space flight [NASA-CR-151876] p0111 N79-16542
- LOEBCHER, L.**
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration p0229 A79-41704
- LOFTUS, G. R.**
Short-term memory factors in ground controller/pilot communication p0181 A79-32626
- LOHMANN, R. A.**
Binocular holographic helmet mounted display [AD-A062761] p0174 N79-20749
- LOKALOVA, N. P.**
The inhibitory trace effect as a manifestation of the integrative activity of the human brain in performing voluntary motor acts p0159 A79-28737
- LOMOV, B. F.**
Experimental and psychological investigations in aviation and astronautics p0041 A79-13998
- Eye movements and visual perception p0267 A79-47429

- LONDON, J. E.
A preliminary toxicological study of silastic 386
foam elastomer: catalyst [LA-7366-MS] p0071 N79-14714
- LONDON, R. M.
Effects of information processing requirements on reaction time of the eye p0064 A79-18219
- Effects of information processing requirements on reaction time of the eye [AD-A060099] p0080 N79-14778
- LONG, S. A. T.
Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051] p0017 N79-10728
- LONGRIDGE, T. M., JR.
Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view [AD-A070231] p0308 N79-32832
- LOOMIS, L. L.
Time estimation as a secondary task to measure workload: Summary of research p0093 N79-15634
- LOPESDASILVA, F. L.
General activities related to medical research [TNO-MFI-PR-6] p0262 N79-29793
- LOS, I. P.
Determination of a generalized output index of a biological experiment after multiple tests p0076 N79-14744
- LOTENS, W. A.
Criteria for maximum tolerable heat stress. A proposal [IZP-1978-13] p0144 N79-18583
- LOTI, D.
The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
- LOUCKS, A. B.
Response of women mountaineers to maximal exercise during hypoxia p0234 A79-43201
- LOUGHNAWE, M. H.
The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil p0210 A79-39974
- LOUVIERE, A. J.
Man and machine design for space flight p0300 A79-52696
- LOVE, P. E.
Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122] p0052 N79-12706
- Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521] p0081 N79-14780
- LOVSEY, E. J.
Human factors evaluations of today's helicopters as an aid to future systems design p0150 N79-19627
- LOWE, W. F.
Visual requirements for the helicopter pilot p0151 N79-19636
- LOWENSOHN, H. S.
Exercise performance and hemodynamics during dietary potassium depletion in dogs p0067 A79-18959
- LOWER, R. S.
A prediction model of arm push strength in the transverse plane p0037 A79-13195
- LOZAR, C. C.
Establishing habitability factors for the design of office environments [AD-A056463] p0020 N79-10744
- LOZINSKIY, V. S.
Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight. and on effectiveness of assimilation of flight training program p0074 N79-14735
- LU, S. T.
Metabolic and physical scaling in microwave/radiofrequency bioeffects studies [DR-3490-1561] p0316 N79-33831
- LUCHI, R. J.
The evolutionary pattern of exercise-induced ST segment depression
- LUCHININA, E. A.
Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils p0074 N79-14732
- LUCIA, H. L.
Renal damage in mice following exposure to the pyrolysis products of polytetrafluoroethylene p0066 A79-18306
- LUCKER, G. W.
Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
- LUEDERS, H. O.
A computer system for statistical analysis of EEG transients p0216 N79-25707
- LUPT, U. C.
Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
- Effects of regional hemoconcentration during LBNR on plasma volume determinations p0265 A79-47326
- Specialized physiological studies in support of manned space flight [NASA-CR-151876] p0111 N79-16542
- LUH, J.
Advanced industrial robot control systems [PB-287273/7] p0113 N79-16558
- LUKASH, A. I.
Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
- LUM, R. W.
Calibration of three year old child dummies [PB-288961/6] p0157 N79-19692
- LUND, D. J.
Extrapolation of pulsed light data in scanned displays p0138 A79-28170
- LUND, G. F.
An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424
- Subcutaneous channeling probe [NASA-CASE-ARC-11091-1] p0025 N79-11684
- Improved subcutaneous electrode structure [NASA-CASE-ARC-11117-1] p0084 N79-15576
- A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590] p0239 N79-26762
- LUNDGREN, P. R.
Effects of weightlessness on the embryonic development and aging of *Drosophila* p0022 N79-11670
- LUSAS, E. W.
A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4] p0059 N79-13719
- A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720
- LUSTICK, L.
Multiaxis dynamic response of the human head and neck to impact acceleration p0284 N79-31906
- LUTSENKO, M. M.
Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite p0192 N79-23631
- LUZHBIN, N. A.
Psychophysiological forecasting of efficiency p0010 A79-12867
- LYMAN, J.
An operator-aiding manipulator control system p0269 A79-48020
- LYNE, P. J.
Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances p0127 A79-24628

LYNEV, R.
Effects of vibration on the human organism
p0249 N79-27862

LYONS, J. H.
Enhancing biological production of ammonia from atmospheric nitrogen and soil nitrate
[PB-286515/2] p0083 N79-15571

LYSEHKO, IU. V.
Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability
p0188 A79-35122

M

HACELROY, R. D.
The response of selected terrestrial organisms to the Martian environment - A modeling study
p0136 A79-27928

An approach to the origin of self-replicating system. I - Intermolecular interactions
p0204 A79-37948

HACEWEN, J. D.
Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870

HACHADO, A. M.
Statistical studies of animal response data from USP toxicity screening test method
p0066 A79-18305

HACHINSKIY, G. V.
Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement
p0110 N79-16534

HACINTYRE, H. R.
Long term pulmonary function patterns in the aviator: The thousand Aviator study
p0028 N79-11708

HACK, A.
Smooth pursuit eye movements - Is perceived motion necessary
p0139 A79-28375

HACOVSKI, A.
Iodine imaging using spectral analysis
p0294 A79-51034

HADSEN, J. C.
Apparent saturation of blue-sensitive cones occurs at a color-opponent stage
p0002 A79-10474

Direction-selective adaptation with very slow motion
p0265 A79-47118

HAGARDEE, D. L.
Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38] p0009 A79-12585

HAGDALENO, R. E.
Roll tracking effects of G-vector tilt and various types of motion washout
p0091 N79-15622

Progress in measuring and modeling the effects of low frequency vibration on performance
p0288 N79-31930

HAGER, H.
Heat- and exercise-induced hyperthermia - Effects on high-energy phosphates
p0266 A79-47332

HAGNUS, P. H.
Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit
p0234 A79-43202

HAGUIRE, B.
Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science
p0228 A79-41702

HAH, R. W.
Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574

HAHEB, J. T.
Evidence for increased intrathoracic fluid volume in man at high altitude
p0305 A79-54266

HAHLER, L. H.
Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545

HAHON, K.
Responses of crown gall tissue to the space environment: Glutamine synthetase activity
p0020 N79-11655

HAIIEPSKI, R.
Radio tracking of a fin whale /Balaenoptera physalus/
p0061 A79-18008

HAILLE, H.
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel
p0104 A79-23959

HAIMS, R. C.
Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission
p0229 A79-41713

HAISTRAKH, E. V.
Automatic control of physiological functions of the human organism in pathology
p0132 A79-26350

HAJEWSKI, P. L.
Medical qualification procedures for hazardous-duty aeromedical research
p0026 N79-11695

Transient intraventricular conduction defects observed during experimental impact in human subjects
p0285 N79-31907

HAJIC, V.
Bionanomagnetism and artificial magnetic stimulation of living structures [IAF PAPER 78-52] p0002 A79-11222

MAJOR, C. S.
Manual alignment of structural components in space [AIAA PAPER 79-0535] p0129 A79-25855

MAKARCHENKO, A. F.
The role of the neurohormone system of the hypothalamus in physiology and pathology
p0251 A79-43835

MAKEEVA, V. F.
3'5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation
p0069 A79-19426

MAKEYEVA, V. F.
Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite
p0014 N79-10702

MAKRA, S.
Some advances in astronaut radiation dosimetry [IAF PAPER 78-67] p0003 A79-11228

MAKSIMOV, I. V.
Pneumotachographic distinctions of external respiration in man in the presence of excess intrapulmonary pressure on ground level and at high altitudes
p0245 N79-27827

MAKSIMOV, V. A.
Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation
p0015 N79-10709

MALCOLM, R. E.
Oculogravic illusion in response to straight-ahead acceleration of a CF-104 aircraft
p0164 A79-30660

MALHOTRA, A.
Effect of exercise on collateral development in dogs with normal coronary arteries
p0067 A79-18960

MALLORY, K. H., JR.
Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582

MALTSEV, V. G.
Self-regulation of cerebral circulation under orthostatic influences
p0221 A79-36098

MALTSEV, V. N.
Intestinal autoflora as an indicator of severity of radiation lesion
p0121 N79-17530

MALUF, S.
The application of remote sensors to a model for fish mapping [INPE-1379-PE/176] p0071 N79-14712

MANDEL, A. D.
Effect of space flight on cell-mediated immunity
p0021 N79-11661

- MAMENT, P. J.**
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel
p0104 A79-23959
- MANGSETH, G. R.**
Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions
p0161 A79-29336
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man
p0163 A79-30624
- MANISON, W. A.**
Improvements in the man-machine interface for data acquisition, display and control
p0224 N79-25983
- MANN, W. A.**
Compact artificial hand
[NASA-CASE-NPO-13906-1]
p0214 N79-24652
- MANN, R. A.**
USAF life support equipment costs
p0043 A79-14402
- MANSSELL, A.**
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression
p0185 A79-33806
- MANTIPLY, E. D.**
Radiofrequency radiation levels and population exposure in urban areas of the eastern United States
[PB-292855/4]
p0241 N79-26779
- MARA, S. J.**
Assessment of human exposures to atmospheric benzene
[PB-284203/7]
p0051 N79-12701
- MARCHAL, L.**
Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology
p0256 A79-46603
- MARCINIAK, M.**
Stereological ultrastructural analysis of the axonal endings in the neuromuscular junction of rats after a flight on biosputnik 782
p0101 A79-23468
- Ultrasonic investigations of the soleus muscle after space flight on the Biosputnik 936
p0274 A79-49992
- MARCUSON, B.**
Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits
p0098 A79-21246
- MARCUSSEN, W. H.**
Two-week studies of survivors from exposures to pyrolysis gases
p0066 A79-18307
- MARECHTYI, A. M.**
Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/
p0006 A79-12518
- Genetic effects of cosmic radiation on bacteriophage T4Br+// On materials of biological experiment Soyuz-Apollo/
p0229 A79-41708
- MARGEL, S.**
Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors
p0274 A79-50230
- Design of polymeric immunomicrospheres for cell labelling and cell separation
p0275 A79-50234
- MARGOLIS, L. A.**
Decreased activity of palladium catalyst during processing of excreta
p0016 N79-10716
- MARGULIS, L.**
Biological implications of the Viking mission to Mars
p0045 A79-14595
- An ultraviolet light induced bacteriophage in Peneckea gazogenes
p0254 A79-46463
- MARINO, A. A.**
Space osteoporosis - An electromagnetic hypothesis
p0165 A79-30666
- MARKS, M.**
Hemodynamics in teenagers and asthmatic children during exercise
p0133 A79-27102
- MARKS, V. J.**
User's instructions for the whole-body algorithms [NASA-CR-160233]
p0219 N79-25735
- User's guide for the Skylab integrated medical data analysis system [NASA-CR-160189]
p0220 N79-25740
- MARMOLIN, H.**
Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-R9]
p0124 N79-17556
- MAROTTE, H.**
Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight
p0047 A79-15491
- Special tests for astronaut selection - Muscular exercise test
p0047 A79-15492
- MARQUIS, J. A.**
Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling)
p0286 N79-31915
- MARR, D.**
Bandpass channels, zero-crossings, and early visual information processing [AD-A062338]
p0170 N79-20724
- MARRAS, W. S.**
Human factors analysis of visual distress signaling devices [AD-A064174]
p0190 N79-22765
- MARSHAK, W.**
Mutual repulsion between moving visual targets
p0275 A79-50473
- MARSHALL, R. D.**
Electrochemically regenerable carbon dioxide absorber [NASA-CR-152099]
p0262 N79-29794
- MARSHALL, W. J.**
Ionizing radiation protection special study: Infrared radiation hazard evaluation of the rotary forge, Watervliet Arsenal, Watervliet, New York, March - April 1978 [AD-A055643]
p0055 N79-13691
- MARSILI, M.**
Increased survival in experimental dog heatstroke after reduction of gut flora
p0266 A79-47335
- MARTIN, B. J.**
Exercise ventilation correlates positively with ventilatory chemoresponsiveness
CO₂ and exercise tidal volume
p0066 A79-18954
p0133 A79-27104
- MARTIN, D. A.**
Extended duration orbiter life support system options [ASME PAPER 78-ENAS-31]
p0008 A79-12580
- MARTIN, W. L.**
Imagery interpreter performance in the comparison of subjective estimates of photographic image quality
p0036 A79-13191
- MARTINEZ, J. A.**
Development of information theory concepts and equations for human mental processing [AD-A068606]
p0260 N79-28877
- MARTZ, H. F., JR.**
Estimating percentiles of nonnormal anthropometric populations - Final report
p0065 A79-18226
- Estimating percentiles of nonnormal anthropometric populations [AD-A061151]
p0122 N79-17535
- MARWAHA, S. C.**
Positive pressure breathing as a protective technique in +Gz acceleration
p0201 A79-37132
- MARZEYEV, A. M.**
Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field
p0074 N79-14737
- MASHINSKII, A. L.**
Influence of orbital flight conditions on formation of genitals in *Muscaria racemosum* and *Anethum graveolens*

- MASKREY, M. p0230 A79-41718
Responses of conscious rabbits to CO₂ at ambient temperatures of 5, 20, and 35 C p0277 A79-50904
- MASOW, J. L. p0045 A79-14602
A continuous wave, frequency modulated, ultrasonic device with auditory output for observing the heart p0025 N79-11686
- MASOW, R. p0278 A79-51015
A literature review-problem definition studies on selected toxic chemicals. Volume 1: Occupational health and safety aspects of diesel fuel and white smoke generated from it [AD-A056018] p0179 N79-21776
- MASSING, D. E. p0220 N79-25743
Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PB-289951/6]
- MASQUIDI, H. p0222 N79-11699
An empirical formula for broad-band SAR calculations of prolate spheroidal models of humans and animals
- MATALOM, S. V. p0277 A79-50901
Cardiopulmonary readjustments in passive tilt
- MATHER, J. T. p0164 A79-30658
Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333]
- MATHEW, I. p0235 A79-43210
Responses of high altitude natives to a standard cold test at sea level
- MATSEN-TWISDALE, J. A. p0273 A79-49987
Pulmonary function and maximum exercise responses following acute ozone exposure
- MATSIKIN, V. V. p0160 A79-29275
Mechanisms of the effect of oxygen toxicity on the energy metabolism
- MATSHEV, E. I. p0108 N79-16520
Antithorstatic hypokinesia as an approximate model of weightlessness
- MATTALIANO, R. J. p0189 N79-22757
Temperature effects on shape and function of human granulocytes [AD-A063750]
- MATTHEWS, C. H. p0133 A79-26542
HCN did not condense to give heteropolypeptides on the primitive earth
- MATTHEWS, G. p0230 A79-41746
Thermal activation of the visual transduction mechanism in retinal rods
- MATTHEWS, K. A. p0289 N79-31932
Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287]
- MATZ, B. J. p0314 N79-33816
Acoustic attitude orientation
- MAUCORT, P. p0104 A79-23959
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel
- MAVLOV, L. p0276 A79-50654
Elicited acoustic responses to meaningful and meaningless verbal stimuli
- MAXWELL, J. R. p0132 A79-26373
A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem
- MAYET, M. H. p0305 A79-54267
Metabolic adrenergic changes during submaximal exercise and in the recovery period in man
- MAYHEW, J. E. W. p0270 A79-48816
Texture contours can facilitate stereopsis by initiating vergence eye movements
- MAYS, J. A. p0137 A79-28164
A 25-inch precision color display for simulator visual systems
- MAYS, L. E. p0210 A79-39974
The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil
- MAZNEVA, G. Y. p0073 N79-14725
Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body
- MAZON, S. p0076 N79-14748
Liberation of carbon monoxide by man when working in protective gear
- MAYZUR, P. p0251 A79-44057
Attempt to describe a class of man-machine dialogue systems based on a natural language
- MC-CAHAN, G. R., JR. p0045 A79-14595
Effect of fiber and dye degradation products /PDP/ on burn wound healing
- MCAFEESE, D. A. p0298 A79-52277
Blood pressure variability of the individual in orthostatic testing
- MCDONALD, D. J. p0265 A79-47328
Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen
- MCARTHUR, W. J. p0027 N79-11699
A Canadian approach to high altitude protection
- MCCAFFREY, T. V. p0045 A79-14435
Role of skin temperature in the control of sweating
- MCCAHAHAN, G. R., JR. p0277 A79-50907
Bioassay of thermal protection afforded by candidate flight suit fabrics
- MCCALLISTER, R. J. p0298 A79-52280
A porcine bioassay study of the physiological effects of fiber and dye degradation products (PDP) on burn wound healing [AD-A066990] N79-25748
- MCCARTHY, J. J. p0223 N79-25762
Evaluation of four thermally protective fabrics using the USAFRL bioassay method [AD-A067351]
- MCCAMBRIDGE, J. J. p0183 A79-33602
USAF life support system 412A - 1978 corporate report
- MCCONVILLE, J. T. p0032 N79-11734
Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024]
- MCCONVILLE, J. T. p0032 N79-11737
Anthropometry in sizing and design
- MCCORMICK, J. W. p0033 N79-11742
Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment [AD-A065901] p0197 N79-23668
- MCCORMICK, J. W. p0290 N79-31939
Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600]
- MCCRACKEN, J. W. p0030 N79-11719
Effect of age on relaxed +G sub z tolerance of aircrewmen
- MCCULLOUGH, R. E. p0066 A79-18954
Exercise ventilation correlates positively with ventilatory chemoresponsiveness
- MCCUTCHEON, E. P. p0162 A79-29728
Cardiac responses of dogs to nonsynchronous and heart synchronous whole-body vibration
- MCCUTCHEON, E. P. p0162 A79-29728
Continuous metabolic and cardiovascular measurements on a monkey subject during a

- simulated 6-day Spacelab mission p0229 A79-41713
- Modification of cardiac function by synchronized oscillating acceleration p0278 A79-50908
- Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- MCDANIEL, G. A.**
A wide aperture focussed ultrasound system for detection of breast carcinoma by ultrasonic attenuation p0142 N79-18577
- MCDOWELL, E. D.**
The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776
- MCELHENNEY, J. R.**
An inflatable restraint system p0044 A79-14408
- MCELLIGOTT, J. G.**
The use of synchronous demodulation for the measurement of eye movements by means of an ocular magnetic search coil p0210 A79-39974
- MCENULTY, R. E.**
Generalized environmental control and life support system computer program (G1894), phase 3 [NASA-CR-151836] p0019 N79-10741
- MCPADDEN, E. B.**
The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use p0184 A79-33638
- Oxygen equipment and rapid decompression studies [AD-A072085] p0289 N79-31937
- MCFARLAND, A. L.**
Human factors considerations in establishing aircraft collision avoidance system alert thresholds p0045 A79-14438
- MCFARLANE, T.**
Air Force female pilots program: Initial performance and attitudes [AD-A065641] p0241 N79-26783
- MCFARLANE, T. A.**
Methodology to assess psychological stress and its impact in the air combat environment [AD-A053474] p0057 N79-13707
- MCGANNON, W. J.**
Intraocular pressure reduction and regulation system [NASA-TM-79187] p0260 N79-28881
- MCGATHA, E. A.**
A real-world assessment of noise exposure [AD-A061692] p0155 N79-19680
- MCGHEE, R. B.**
Adaptive locomotion of a multilegged robot over rough terrain p0163 A79-30217
- MCGOURTY, J.**
Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- MCGRATH, D.**
Orientation relative to the retina determines perceptual organization p0299 A79-52539
- MCHEDLISHVILI, G. I.**
Use of the systems analytic approach for organization and coordination of complex biomedical research p0079 N79-14767
- MCINTYRE, H.**
In-flight measures of stress reduction due to wearing expandable foam earplugs p0273 A79-49986
- MCKENZIE, J. M.**
Effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance p0127 A79-24635
- Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol
- [AD-A059412]
Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [FAA-AM-78-40] p0144 N79-18581
- Effects of propranolol on Time of Useful Function (TUF) in rats [AD-A068535/4] p0283 N79-31896
- MCKETTY, M. H. P.**
The design and construction of a miniature dosimeter for the study of the effects of air cavities in radiation therapy p0176 N79-21757
- MCHANUS, B. L.**
Dispersal of forest insects p0148 N79-19596
- MCHILLIN, C. R.**
Physical testing of polymers use in circulatory assist devices [PB-286129/2] p0084 N79-15579
- MCMURRAY, R. G.**
Thermoregulation in swimmers and runners p0227 A79-41186
- MCMURRY, R. L.**
Two dimensional eye tracking: Sampling rate of forcing function p0090 N79-15617
- Head tracking at large angles from the straight ahead position p0090 N79-15618
- MCNEE, B. C.**
Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft p0236 A79-43675
- Mathematical modeling of arterial oxygen saturation and eye-level blood pressure during +G sub Z stress p0286 N79-31916
- MCNEIL, R. J.**
The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A05204] p0055 N79-13693
- MCPHERSON, D.**
Time estimation as a secondary task to measure workload: Summary of research p0093 N79-15634
- MCRUER, D. T.**
Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions p0117 N79-17493
- MECKLENBURG, D. J.**
Effects of filtering electroencephalic signals on auditory evoked brain stem responses p0176 N79-21758
- MEDVEDEV, V. I.**
Dynamical characteristics of visual functions p0276 A79-50656
- MEDVEDEV, V. S.**
Control systems for robots and manipulators p0134 A79-27303
- MEEKER, L. J.**
Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122] p0052 N79-12706
- Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521] p0081 N79-14780
- MEERBAUM, S.**
Multifunctional transducer [NASA-CASE-NPO-14329-1] p0219 N79-25737
- MEERSON, F. Z.**
Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylyl cyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- MEESTER, G. T.**
Clinical usefulness of radiopaque markers in left ventricular function p0293 A79-51029
- MEIER-DOERNBERG, K. E.**
Reference parameters for shock inputs and shock tolerance limits p0284 N79-31905
- MEIER-KOLL, A.**
Experimental and theoretical investigations concerning a frequency filter behavior of the human retina regarding electric pulse currents

[NASA-TM-75372]	p0314 N79-33822	
HEINDL, J. D. Quantitative flow estimation with transcutaneous Doppler ultrasound	p0295 A79-51042	
HEINERS, C. O. The physiological significance of light for human beings [RAE-LIB-TRANS-1976]	p0077 N79-14757	
MEISTER, D. Subjective data in human reliability estimates	p0046 A79-15398	
MELESHKO, G. I. Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53]	p0003 A79-11223	
MELLSEN, S. B. A general model for the transfer of vapour through clothed skin from liquid on and in clothing [AD-A071577]	p0319 N79-33853	
MELNIKOV, L. Light and color on a manned spacecraft	p0059 N79-13996	
MELNIKOVA, E. V. Coacervate drops - Primitive forms of precells	p0204 A79-37962	
MELTON, C. E. Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [FAA-AM-78-40]	p0144 N79-18581	
MELVIN, J. Joint testing of the RAP high altitude protective ensemble	p0044 A79-14434	
MELVIN, J. W. Whole body response research program [PB-286151/6]	p0093 N79-15640	
Whole body response research program. Appendix A: Methodology [PB-286152/4]	p0094 N79-15641	
MELZIG, H. D. Balance training of the equilibrium organ and its effect on flight strategy	p0242 N79-27074	
Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods	p0287 N79-31924	
MENDELL, R. B. Atmospheric neutrons [NASA-CR-3126]	p0211 N79-24631	
MENGUY, C. The responses of frogs to vestibular and visual stimulation in weightlessness	p0006 A79-12513	
An apparatus for studying electroretinographic responses under conditions of space flight	p0006 A79-12517	
MEOT-NER, M. Ion-molecule condensation reactions - A mechanism for organic synthesis in ionized reducing atmospheres	p0099 A79-22079	
MERIDITH, P. Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4]	p0241 N79-26780	
MERJANIAN, S. V. An operator-aiding manipulator control system	p0269 A79-48020	
MERKER, H. Atmospheric neutrons [NASA-CR-3126]	p0211 N79-24631	
MERSEREAU, R. M. Speech quality measurement [AD-A056272]	p0033 N79-11745	
MERTENS, H. The response of a realistic computer model for sitting humans to different types of shocks	p0288 N79-31927	
MERTENS, H. W. Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators	p0297 A79-52276	
MERTZ, A. G. A preliminary investigation of aural input/output systems for in-flight information retrieval [AD-A063174]	p0178 N79-21770	
MERTZ, H. Eye torsion in response to a tilted visual stimulus	p0305 A79-54254	
MERZON, A. K. Changes in human renal function in passive head-up and head-down positions	p0072 N79-14722	
MESHCHERIAKOV, I. P. Engineering-psychological study of information imaging systems	p0099 A79-21404	
METGES, P. J. Radiological examination of the Rachis and fitness for employment as a helicopter pilot	p0151 N79-19634	
METGES, P. J. Vertebral pains in helicopter pilots	p0153 N79-19656	
MEYER-ERKELENZ, J. D. Mechanics of breathing during graded exercise measured with the bodyplethysmograph	p0029 N79-11709	
MEYER, W. W. A numerical method of film analysis with differentiation	p0061 A79-17585	
MEYNIEL, G. Mechanism of the formation of phosphenes by X-rays	p0006 A79-12516	
MEYZEROV, I. S. Rat behavior in maze after flight aboard Kosmos-690 biosatellite	p0014 N79-10705	
MICHAEL, P. R. Visual effects of helicopter maneuvre on weapon aiming performance	p0150 N79-19626	
MICHAUD, R. B. Urine collection apparatus [NASA-CASE-MSC-18381-1]	p0195 N79-23657	
MICHEL, P. Adaptation to chronic hyperoxia in the rat - A study of pulmonary surfactant, tissue levels of superoxide dismutases and histology	p0256 A79-46603	
MICHELS, D. B. Distribution of pulmonary ventilation and perfusion during short periods of weightlessness	p0068 A79-18967	
Radiographic comparison of human lung shape during normal gravity and weightlessness	p0305 A79-54269	
MICHELOW, S. M. Metabolic and physical scaling in microwave/radiofrequency bioeffects studies [UR-3490-1561]	p0316 N79-33831	
MIKHAILOV, V. M. Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting	p0127 A79-24634	
MIKHAILOVA, G. P. The bloodflow in skeletal muscle capillaries in normoxia and arterial hypoxemia /Microcinematographic studies/	p0208 A79-38150	
MIKHAYLIK, N. P. Dynamic medical monitoring of flight crews in the course of long-term flights	p0072 N79-14719	
MIKHAYLOV, V. M. Effects of hyperhydration on human endurance of orthostatic and LBNP tests	p0072 N79-14721	
Antiorthostatic hypokinesia as an approximate model of weightlessness	p0108 N79-16520	
Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system	p0245 N79-27831	
Control of vertical position after flights aboard the Salyut-4 orbital station	p0311 N79-33793	
MIKOS, K. M. Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft	p0072 N79-14720	
MILEKHINA, E. I. Amino acids in southern Kamchatka hot springs	p0182 A79-33122	

PERSONAL AUTHOR INDEX

MITCHELL, J. H.

- MILES, D. S.**
Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill
p0024 N79-11681
- MILGRAM, D. L.**
Region extraction using convergent evidence [AD-A061591]
p0124 N79-17552
- MILHAUD, C. L.**
Two primate biological facility module in Spacelab [IAP PAPER 78-70] p0003 A79-11229
Study of specific effects of hyperfrequencies on the central nervous system. II - Exploratory research on rat /Wistar/ behaviour p0047 A79-15493
- MILIC-EMILI, J.**
Influence of exercise and CO₂ on breathing pattern of normal man
p0237 A79-43704
- MILLER, D. C.**
Development of human performance models for man-machine system simulation [AD-A069879] p0282 N79-30940
- MILLER, D. P.**
A comparison of kinesthetic-tactile and visual displays via a critical tracking task p0162 A79-29720
Evaluation of kinesthetic-tactile displays using a critical tracking task p0119 N79-17516
- MILLER, E. A.**
Time for loss of increased cardiac responsiveness to isoproterenol in cold-acclimated rats after removal from cold p0128 A79-24636
- MILLER, F.**
The effects of H₂SO₄ on men and H₂CO₃ and O₃ on laboratory animals p0141 N79-18354
- MILLER, H. A.**
Noninvasive cardiovascular measurements p0293 A79-51026
- MILLER, J. M.**
Human Factors Society, Annual Meeting, 22nd, Detroit, Mich., October 16-19, 1978, Proceedings p0062 A79-18201
- MILLER, R. A.**
A formal model of the adaptive and discrete control behaviors of human operators [AD-A059039] p0059 N79-13717
- MILLER, R. L.**
Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248] p0053 N79-12710
- MILLER, S. D.**
Hemodynamics in teenagers and asthmatic children during exercise p0133 A79-27102
- MILLHORN, D. E.**
Evidence for the neural regulation of respiration During low intensity exercise in man p0144 N79-18578
- MILLINGTON, W. R.**
Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
- MILLS, F. C.**
Thermodynamic studies on the oxygenation and subunit association of human hemoglobin p0142 N79-18576
- MIS, B.-G.**
A catheter flow probe for measurement of left ventricular source parameters p0274 A79-50108
- MINUT-SOROKHTINA, O. P.**
Neurophysiology of thermal reception p0043 A79-14374
- MIOTTI, R.**
The lymph nodes and lymph vessels of the white rat [BLL-RTS-11309] p0141 N79-18554
- MIQUEL, J.**
A study of axonal degeneration in the optic nerves of aging mice p0005 A79-12123
Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
- MITCHELL, J. H.**
Analysis of population mortality kinetics with application to the longevity followup of the Navy's 1,000 aviators' p0234 A79-43207
- Quantitative analysis of mating behavior in aging male *Drosophila Melanogaster* p0252 A79-44799
- A simple technique for evaluation of vitality loss in aging mice, by testing their muscular coordination and vigor p0274 A79-50205
- Effects of weightlessness on the embryonic development and aging of *Drosophila* p0222 N79-11670
- Effects of weightlessness on the genetics and aging process of *drosophila melanogaster* p0223 N79-11673
- MIRANDA, R.**
Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- MIRANDA, R. F.**
A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590] p0239 N79-26762
- MIROLYUBOV, G. P.**
Significance of the vibration component to the deleterious effect of impact accelerations p0312 N79-33801
- MIROSHNIKOVA, E. B.**
Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782 p0230 A79-41714
- MIRRASHIMOV, M. M.**
Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- MISHCHENKO, V. P.**
Prospects of using Japanese quail in biological life support systems p0109 N79-16531
Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0194 N79-23641
- MISTRETTA, C. A.**
Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- MISTRIT**
Evaluation of the amount of exposure to vibrations transmitted to the whole body case of vibrations due to a loader mounted on caterpillar tracks, a fork-lift truck and a hydraulic excavator [RAE-LIB-TRANS-1930] p0080 N79-14773
- MITAL, N. K.**
Computation of rigid-body rotation in three-dimensional space from body-fixed linear acceleration measurements [ASME PAPER 78-WA/BIO-5] p0069 A79-19759
Tolerance of the neck to indirect impact [AD-A066971] N79-25749
Simulation of head and neck response to -G sub x and +G sub z impacts p0285 N79-31908
- MITCHELL, E. D.**
Radio tracking of a fin whale /Balaenoptera physalus/ p0061 A79-18008
- MITCHELL, G. S.**
Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals p0169 N79-20713
- MITCHELL, J.**
Influences of physical conditioning and deconditioning on coronary vasculature of dogs p0067 A79-18955
- MITCHELL, J. H.**
Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
Cardiac changes during behavioral stress in dogs p0200 A79-36575
Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAP PAPER 79-77] p0301 A79-53286

- BITCHELL, R. E.**
Long term pulmonary function patterns in the aviator: The thousand Aviator study
p0028 N79-11708
- HITKIN, A. A.**
Eye movements and visual perception
p0267 A79-47429
- SITRIKAS, V. G.**
Atlas of the dose characteristics of external ionizing radiation /Handbook/
p0098 A79-20669
- MITSUI, A.**
Nitrogen fixation with photosynthetic marine microorganisms [PB-286000/5]
p0083 N79-15570
- Nitrogen fixation with photosynthetic marine microorganisms [PB-287590/4]
p0120 N79-17525
- MIXON, R. W.**
Advanced transport operation effects on pilot scan patterns
p0295 A79-51098
- MIZUMOTO, C.**
Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits
p0134 A79-27120
- MILINAR, A.**
Application of learning curves of aircraft produced at more than one location to the F-16 lightweight fighter [AD-A065881]
p0196 N79-23664
- MAYER, M.**
The evolutionary pattern of exercise-induced ST segment depression
p0251 A79-44166
- MOCHAMNUK, J. B.**
An Air Combat Effectiveness Study /ACES/ program
p0040 A79-13222
- Visual target acquisition and ocular scanning performance
p0069 A79-19000
- Visual search for complex targets
p0208 A79-38357
- MOCKBEE, J.**
The role of physical examinations and education in prospective medicine
p0026 N79-11694
- MODELL, H. I.**
Gas exchange under environmental stress [AD-A058242]
p0056 N79-13697
- MOGILNAYA, G. M.**
Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite
p0192 N79-23631
- MOHLER, S. R.**
Current role of alcohol as a factor in civil aircraft accidents
p0136 A79-27561
- MOHLMAN, H. T.**
Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006]
p0157 N79-19690
- MOHR, J. W.**
Human operator identification model and related computer programs [NASA-CR-152237]
p0112 N79-16551
- MOISE, J.**
Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4]
p0241 N79-26780
- MOISEEVA, N. I.**
Structure of biorhythms as one of the criteria for physiological adaptability of the human organism
p0097 A79-20653
- MOKHOV, L. A.**
Evaluation of oxidizability of air in closed areas
p0313 N79-33808
- MOLINA, T. C.**
Microflora analysis of a child with severe combined immune deficiency
p0004 A79-11900
- MONESI, F.**
Evaluation of aircrew fatigue during operational helicopter flight mission
p0149 N79-19622
- MONEY, K. E.**
Oculographic illusion in response to straight-ahead acceleration of a CF-104 aircraft
p0164 A79-30660
- MONK, D. L.**
Two dimensional eye tracking: Sampling rate of forcing function
p0090 N79-15617
- Head tracking at large angles from the straight ahead position
p0090 N79-15618
- MONTELLESE, S.**
Changes in critical duration during dark-adaptation
p0304 A79-54252
- MONTGOMERY, L. D.**
Effect of sodium and calcium ingestion on thermoregulation during exercise in man
p0163 A79-30624
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man
p0235 A79-43208
- MOONEY, V.**
Prostheses coupling [NASA-CASE-KSC-11069-1]
p0240 N79-26772
- MOORE, B.**
Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science
p0228 A79-41702
- MOORE, G. E.**
A systematic approach to computer analysis of pulmonary vascular patterns
p0176 N79-21756
- MOORE, G. W.**
On investigating the statistical properties of the populous path algorithm by computer simulation - Counterconclusions to those of Tateno and Nei
p0253 A79-45640
- MORA, R.**
Porphyrin-like compounds genesis under simulated abiotic conditions
p0099 A79-22078
- MORELLI, P.**
Microbiological evaluation of the mobile biological isolator system [NASA-CR-162293]
p0307 N79-32822
- MOREY, E. R.**
Spaceflight and bone turnover - Correlation with a new rat model of weightlessness
p0182 A79-33049
- MORGAN, M. J.**
Perception of continuity in stroboscopic motion - A temporal frequency analysis
p0186 A79-34375
- MORGAN, T.**
Joint testing of the RAP high altitude protective ensemble
p0044 A79-14434
- MORGAN, T. R.**
An assessment of the RAE Type 'B' full pressure suit automatic head enclosure
p0044 A79-14432
- MORIHISA, H.**
On the relationship between pilot rating and pilot dynamics. I - An experimental approach
p0066 A79-18474
- MORISHITA, H.**
Control by episome on salt-resistance in bacteria
p0205 A79-37969
- MORONEY, W. F.**
Human factors considerations in the design and evaluation of a helmet mounted display using a light emitting diode matrix
p0063 A79-18214
- MOROWITZ, H. J.**
Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science
p0228 A79-41702
- MOROVZOV, B. V.**
A complex system for planning scientific medical research
p0078 N79-14761
- MOROVZOV, L.**
Mirror symmetry breaking in biochemical evolution
p0254 A79-46462
- MOROVZOV, Y. A.**
Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1]
p0307 N79-32827

- MOROZOVA, N. P.
Animal endurance to recurrent impact accelerations
p0246 N79-27833
- MORRIS, F. A.
Distribution of phytoplankton in Arkansas lakes
[PB-292742/4] p0240 N79-26768
- MORRIS, M. K.
Distribution of phytoplankton in North Carolina
lakes
[PB-286387/6] p0084 N79-15573
Distribution of phytoplankton in Arkansas lakes
[PB-292742/4] p0240 N79-26768
- MORRISSEY, S. J.
Effects of vibration on humans - Performance
decrements and limits
p0035 A79-13185
- A composite view of task performance in hot
environments
p0036 A79-13186
- MORROW, J. R.
Man-machine analysis of translation and work tasks
of Skylab films
[NASA-CR-151879] p0146 N79-18592
- MORSE, J. T.
Plasma volume and electrolyte shifts with heavy
exercise in sitting and supine positions
p0161 A79-29336
- Effect of sodium and calcium ingestion on
thermoregulation during exercise in man
p0163 A79-30624
- MOSGOVAYA, I. Y.
Materials of the final reports on the joint
Soviet-American experiment on the Kosmos-936
biosatellite
[NASA-TM-75582] p0071 N79-14711
- MOSKOWITZ, H.
Effect of alcohol and marijuana on eye movements
p0101 A79-23469
- MOSSER, E. L.
The prediction of the existence or nonexistence of
coronary artery disease using routine clinical
laboratory measurement
p0028 N79-11703
- MOSSMAN, P. B.
Effect of impermeable clothing and respirator on
work performance. Part 1: Laboratory studies
[SAND-77-2132] p0034 N79-11748
- MOUNTFOORD, W. K.
Results of benthic studies at Calvert Cliffs
[PB-294261/3] p0261 N79-29788
- MOURIK, J.
Binding of biologically active agents to plasma
proteins
[CL-1977-22] p0261 N79-29787
- MOYERS, C. V.
A system for sterilizing objects
[NASA-CASE-KSC-11085-1] p0318 N79-33848
- MOYNIHAN, R. W.
Development of a specialized head/face protective
device for test parachuting operations
p0045 A79-14437
- MOZGOVAYA, I. E.
Biological experiments carried out aboard the
biological satellite Cosmos-936
p0230 A79-41717
- MOZO, B. T.
The effective acoustic environment of helicopter
crewmens
p0152 N79-19645
- MUELLER-LIMBROTH, W.
Comparative experiments on performance and fatigue
effects on pilots using tracking tests and
physiological measurement parameters
[RAE-LIB-TRANS-1971] p0080 N79-14774
- MUELLER, E.
Spacelab's payload specialists, their selection
and duties on-board
p0226 A79-40720
- MUELLER, T. J.
Application of numerical methods to physiological
flows
p0146 N79-18945
- MUHOBERAC, B. B.
Analysis of visible spectra and thermodynamic
parameters in hemoprotein systems
p0144 N79-18579
- MUKERJEE, S. K.
Disability pattern amongst civil aircrew
p0182 A79-33192
- MUKHIN, L. M.
Amino acids in southern Kamchatka hot springs
p0182 A79-33122
- A review of recent concepts of the problem of the
origin of life
p0221 A79-36041
- MUKHOPADHYAY, P.
Simulation and control of a human temperature
regulation system
p0041 A79-13613
- MULLEN, S. E.
Effects of altitude and two
decongestant-antihistamine preparations on
physiological functions and performance
p0127 A79-24635
- Effects of propranolol on Time of Useful Function
(TOF) in rats
[AD-A06535/4] p0283 N79-31896
- MUNCH, D. P.
A study of some of the factors influencing the
left ventricular diastolic pressure-volume
relationship and myocardial metabolism
p0154 N79-19674
- MURALI, H. H.
Some electrophysiological concepts of the U wave
of ECG
p0201 A79-37138
- MURALIDHARAN, R.
Closed loop models for analyzing the effects of
simulator characteristics
p0087 N79-15598
- Combined monitoring, decision and control model
for the human operator in a command and control
desk
p0092 N79-15631
- A decision, monitoring and control model of the
human operator applied to an RPV control problem
[AD-A069880] p0282 N79-30939
- Development of human performance models for
man-machine system simulation
[AD-A069879] p0282 N79-30940
- MURATORE, R.
Pursuit after-nystagmus
p0271 A79-49484
- MURATOV, V. R.
Experimental determination of maximum permissible
exposure to laser radiation of 1.54-micron
wavelength
p0002 A79-10648
- MURPHY, G. L.
Biological specimen holding facilities for
Spacelab experiments
[IAF PAPER 78-56] p0003 A79-11224
- Selection, training, and health care of working
specialists for Shuttle/Spacelab and future
space station missions
[IAF PAPER 79-99] p0303 A79-53297
- MURPHY, H. R.
Coordinated crew performance in commercial
aircraft operations
p0040 A79-13219
- MURRAY, B. G.
ST isopotential precordial surface maps in
patients with acute myocardial infarction
p0098 A79-21245
- Early cardiovascular adaptation to simulated zero
gravity
p162 A79-29727
- MURRAY, E. W.
Food and waste management biotechnology for the
space shuttle
[IAF PAPER 79-93] p0302 A79-53294
- MURTHY, I. S. N.
Homomorphic analysis and modeling of ECG signals
p0210 A79-39973
- MURZIN, A. G.
Experimental determination of maximum permissible
exposure to laser radiation of 1.54-micron
wavelength
p0002 A79-10648
- MUSACCIA, I. J.
Intestinal transport of hexoses in the rat
following chronic heat exposure
p0236 A79-43701
- HUTKE, H. G.
Equipment for surgical interventions and
childbirth in weightlessness
[IAF PAPER 79-97] p0302 A79-53296

IVASNIKOV, V. I.
Control of vertical position after flights aboard
the Salyut-4 orbital station p0311 N79-33793

MYERS, P. C.
Microwave thermography: Physical principles and
diagnostic applications p0083 N79-15567

MYHRE, L. G.
Tracking-task performance during heat stress
simulating cockpit conditions in
high-performance aircraft p0236 A79-43675

MYLES, W. S.
The relationship between aerobic fitness and
cardiovascular risk factors in the Canadian forces
[AD-A069865] p0316 N79-33829

N

NAAB, K. H.
Performance evaluation of test dummies with flesh
parts produced with substitute foaming compounds
[PB-289951/6] p0179 N79-21776

NACHNEV, L.
Possibility of improving assessment of
cardio-pulmonary function by submaximal exercise
on a bicycle ergometer
[BLL-RTS-11657] p0279 N79-30918

NADEL, L. D.
An investigation of the pulse-scatter imaging
technique for medical ultrasonic imaging and
tissue characterization p0211 N79-24628

NADON, R.
Carbohydrate metabolism of the stimulated
diaphragm muscle p0050 N79-12689

NAGAMO, K.
The origin of the protein synthesis mechanism
p0207 A79-37986

NAGASAWA, Y.
Vigilance and electroencephalogram
Frequency analysis of heart rate variability under
flight conditions p0202 A79-37713

NAHMIAS, C.
Changes in lung volume, lung density, and
distribution of ventilation during hypobaric
decompression p0185 A79-33806

NAIDEL, A. V.
Mechanism for the regulation of human posture
during movements of the foot p0276 A79-50651

NAKAMURA, H.
Membranous evolution in the primitive cell
p0206 A79-37977

NAKAPKIN, O. A.
Automatic audiometry in the practice of
flight-personnel examination p0295 A79-51084

NAKATANI, H.
A binocular stereoscopic display system for
echocardiography p0130 A79-26072

NAKAYA, M.
Development of adaptation to hypodynamics on rat
and its readaptability to ambulatory life
[IAF PAPER 79-76] p0301 A79-53285

NAKAYACHI, M.
Intelligence p0095 N79-15896

NAKHLA, S. S.
Tolerance of the neck to indirect impact
[AD-A066971] N79-25749
Simulation of head and neck response to -G sub x
and +G sub z impacts p0285 N79-31908

NAKDI, P. K.
Interaction between inositol hexaphosphate and
carbobenzoxy peptide - A model for nucleic acid
- Nonhistone chromosomal protein interaction
p0100 A79-22082

NAKOBASHVILI, Z. I.
Origin of neuron responses of the superior
colliculus to light flashes p0233 A79-42294

NATOCHIN, Y. V.
Simulation of fluid-electrolyte metabolism as a
means of preventing orthostatic instability in
the crew of the second expedition aboard the
Salyut-4 station p0243 N79-27819

NAVON, D.
Tracking in two dimensions as a function of
dimension priorities and tracking difficulty
p0036 A79-13193

NAVBOT, J.
Chemical fingerprints of life in terrestrial soils
and their possible use for the detection of life
on Mars and other planets p0136 A79-27929

NAZAR, M. Y.
New combined aspirator for sampling developed
p0170 N79-20722

NAZARENKO, A. I.
The effect of normobaric hyperoxia on brain and
liver tissue respiration in albino rats with
different resistances to hypoxia p0296 A79-51113

NAZAROV, N. M.
Effects of different values of urine pH during
long-term storage on microflora composition
p0194 N79-23643
Quality of water reclaimed from urine as related
to pH of initial product p0313 N79-33807

NEAL, A. S.
Human Factors Society, Annual Meeting, 21st, San
Francisco, Calif., October 17-20, 1977,
Proceedings p0035 A79-13181

NEAL, L.
A simple model of fluid flow and electrolyte
balance in the body [NASA-CR-160205] p0217 N79-25722

NEBOIT, M.
Selection and techniques for analysis of indices
of visual data reception. II
Choice and techniques of analysis of indices for
the perception of visual information. III
p0047 A79-15494
p0103 A79-23954

NECAS, J.
Experiment Chlorella 1 on board of Salyut 6
[IAF PAPER 78-53] p0003 A79-11223

NECHAEV, A. P.
Engineering-psychological study of information
imaging systems p0099 A79-21404

NEFEDOV, I. G.
Preliminary results of Cytops experiment flows in
Salyut VI - Investigations of Paramechium aurelia
p0229 A79-41709

NEFEDOV, Y. G.
Investigation of composition of trace contaminants
in the air environment of the Soyuz-22 spacecraft
p0072 N79-14720

WEI, M.
Goodman et al.'s method for augmenting the number
of nucleotide substitutions
Augmentation algorithm - A reply to Holmquist
p0253 A79-45639
p0253 A79-45644

WEIDERHEISER, W.
Microbiological evaluation of the mobile
biological isolator system [NASA-CR-162293] p0307 N79-32822

NEKHAYEV, A. S.
Simulation of fluid-electrolyte metabolism as a
means of preventing orthostatic instability in
the crew of the second expedition aboard the
Salyut-4 station p0243 N79-27819
Studies of venous circulation in the crew of the
Salyut-5 orbital station p0310 N79-33791

NEKRASOVA, V. M.
Mathematical model of the respiration rhythm
generation process p0254 A79-46268

NELSEN, T. S.
Quantitative flow estimation with transcutaneous
Doppler ultrasound p0295 A79-51042

- NELSON, C. L.**
Effects of information processing requirements on reaction time of the eye p0064 A79-18219
- Effects of information processing requirements on reaction time of the eye [AD-A060099] p0080 N79-14778
- NELSON, C. V.**
Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- NELSON, M. A.**
Visual contrast sensitivity functions obtained with colored and achromatic gratings p0181 A79-32628
- NELSON, W. G.**
ECLSS definition for a low cost space construction base [ASME PAPER 78-ENAS-15] p0007 A79-12564
- MEMSADZE, N. D.**
Effect of paradoxical sleep deprivation on the acquisition of sound discrimination p0167 A79-31988
- NESTEROV, V. P.**
Effects of space flight factors on electrolyte composition of rat skeletal muscles p0109 N79-16530
- Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite p0311 N79-33795
- NEUBERT, J.**
Ultrastructural development of the vestibular system under conditions of simulated weightlessness p0298 A79-52284
- Ultrastructural development of the vestibular system of frog larvae in 0g simulation [IAF PAPER 79-78] p0301 A79-53287
- NEUDER, S. M.**
Electromagnetic fields in biological media. Part 1: Dosimetry - a primer on bioelectromagnetics [PB-285793/6] p0078 N79-14759
- NEUHAUSER, G.**
From the laboratory to the Spacelab - Training program for Spacelab payload experts [DGLR PAPER 78-182] p0069 A79-20023
- NEUMAN, T.**
Quantification and validation of percept-genetic defense mechanism. A hierarchical analysis of behavior of pilots under stress [FOA-C-55020-H6] p0124 N79-17555
- NEUMYVARIN, I. P.**
Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- NEVEROV, V. P.**
Changes in optokinetic, postoptokinetic, and reverse postoptokinetic nystagmus after bilateral labyrinthectomy p0255 A79-46499
- NEVILLE, E. D.**
In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400
- Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C/14-U-glucose in diabetic rats p0252 A79-44797
- NEVZGODINA, L. V.**
Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
- Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
- NEWGARD, P. M.**
A study of noninvasive blood pressure measurement techniques p0294 A79-51036
- NEWMAN, R. A.**
Discrimination of density and clustering on four versions of a stochastic display p0036 A79-13192
- NEWMAN, R. L.**
A head-up display for mid-air drone recovery p0090 N79-15615
- NEWSON, B. D.**
Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- NICHOL, P. M.**
Effects of endurance training on left ventricular dimensions in healthy men p0237 A79-43706
- NICHOLSON, A. H.**
Beta-adrenoceptor antagonists: Central effects p0027 N79-11702
- NICOL, S. C.**
Responses of conscious rabbits to CO₂ at ambient temperatures of 5, 20, and 35 C p0277 A79-50904
- HIGAM, A. K.**
Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582
- NIKOLOV, I. T.**
Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- NIKONOVA, K. V.**
Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- NILSSON, B. O.**
A mechanism for high-frequency electromagnetical field-induced biological damage p0231 A79-41847
- NISHIDA, S.**
Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna p0136 A79-27959
- NISHIMURA, S.**
Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature p0206 A79-37976
- NITAMI, H.**
Transient changes in arterial blood gases and heart rate during and after acutely induced hypoxia and hyperoxia to rabbits p0134 A79-27120
- NIWA, K.**
A study of progress in flying performance revealed from daily check sheets in a primary flight training course. III - Comparison of progress between two courses p0134 A79-27119
- Personality characteristics of pilots on EPPS, MPI and DOSEPU test. II - Comparison among pilots, non-pilot officers and aviation students p0210 A79-38822
- NIXON, J. V.**
Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- Early cardiovascular adaptation to zero gravity simulated by head-down tilt [IAF PAPER 79-77] p0301 A79-53286
- NOBLE, B. E.**
Air Force female pilots program: Initial performance and attitudes [AD-A065641] p0241 N79-26783
- NODA, H.**
Origin of life; Proceedings of the Second ISSOL Meeting and Fifth ICOL Meeting, Kyoto, Japan, April 5-10, 1977 p0203 A79-37919
- NOGUCHI, K.**
On the relationship between pilot rating and pilot dynamics. I - An experimental approach p0066 A79-18474
- NOLAN, R. W.**
Evaluation of British and Canadian conductive rubber heating elements for handwear: Preliminary report [AD-A052826] p0093 N79-15637
- HOONER, D. W.**
Prebiotic condensation reactions using cyanamide p0203 A79-37932

- NORGREN, R.**
Non-invasive information on the P-R segment of the cardiac cycle - An assessment of the clinical potential of the electric and magnetic methods
p0295 A79-51045
- NORMAN, A.**
Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro
p0134 A79-27239
- NORMAN, D.**
Recent developments and plans for pilot training devices
[SAE PAPER 781007] p0130 A79-25889
- NORMAN, R. W.**
Aircrew helmet protection against potential cerebral concussion in low-magnitude impacts
p0201 A79-37705
- NORTH, R. A.**
Task functional demands as factors in dual-task performance
p0039 A79-13214
- Human performance in time-shared verbal and tracking tasks [AD-A070275] p0308 N79-32831
- NORTON, R. D.**
Development opportunities in the space environment
p0095 N79-15897
- MOSOVA, Y. A.**
Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite
p0014 N79-10700
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite
p0108 N79-16518
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite
p0244 N79-27823
- NOVAK, G. R.**
Autoradiographic enhancement of mammograms
p0227 A79-40773
- NOVAK, J. T.**
Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- NOVAK, V. J. A.**
Subcellular organisms and evolution of cell structure
p0206 A79-37978
- NOVIKOV, P. P.**
Detection of conflict states in air traffic control of airport zones
p0166 A79-31181
- NOVIKOV, V. M.**
Utilization of the wastes of vital activity [NASA-TM-75410] p0177 N79-21768
- NOVIKOVA, N. M.**
Nonparametric model for the detection of signals observed by a human operator on a CRT screen on a noise background
p0159 A79-28565
- Information-handling capacity of a human operator in detection of signals against a noisy background
p0081 N79-14989
- NOVOSELTSEV, V. N.**
Control theory and biosystems: Analysis of homeostatic properties
p0186 A79-34506
- NOYES, F.**
Knee flail design limits: Background, experimentation and design criteria [AD-A062384] p0220 N79-25746
- NUDELMAN, S.**
The development of a digital video subtraction system for intravenous angiography
p0294 A79-51033
- NUUNLEY, S. A.**
Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22] p0007 A79-12571
- Fighter index of thermal stress /FITS/ - guidance for hot-weather aircraft operations
p0202 A79-37715
- Effect of cockpit temperature gradients on the validity of single-point measurements
p0234 A79-43203
- Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft
p0236 A79-43675
- Heat and acute dehydration effects on acceleration response
p0237 A79-43705
- Fighter index of thermal stress: Development of interim guidance for hot-weather USAF operations [AD-A053471] p0056 N79-13699
- Fighter index of thermal stress: Relation to weather conditions at ATC and TAC bases [AD-A062713] p0174 N79-20748
- NUZHNYI, V. P.**
Norepinephrine uptake by the isolated heart of rats adapted and deadapted to hypoxia
p0097 A79-20621

O

- OBERMAN, A.**
Long term pulmonary function patterns in the aviator: The thousand Aviator study
p0028 N79-11708
- OBLEE, H. D.**
Apparatus for supplying conditioned air at a substantially constant temperature and humidity [NASA-CASE-GSC-12191-1] p0156 N79-19688
- OCHIAI, E.-I.**
The evolution of the environment and its influence on the evolution of life
p0099 A79-22076
- OCHIAI, T.**
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums
p0203 A79-37935
- ODDOU, C.**
Specific problems in cardiovascular fluid dynamics measurements
p0210 A79-39506
- ODOM, D. G.**
Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide
p0162 A79-29938
- ODONNELL, R. D.**
Contributions of psychophysiological techniques to aircraft design and other operational problems [AGARD-AG-244] p0290 N79-31941
- ODOWD, P.**
Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration
p0229 A79-41704
- OESTREICHER, H. L.**
Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles
p0286 N79-31917
- OGAWA, Y.**
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums
p0203 A79-37935
- OGORODNIKOVA, L. G.**
Helium-oxygen mixture and the organism hyperbaric aspect
p0243 N79-27818
- OHAREK, F. J.**
Component performance of a 360 deg non-programmed visual display
p0137 A79-28163
- OHNISHI, K.**
Some characteristic features of the origin and evolution of the amino acid composition of proteins - A theoretical consideration
p0206 A79-37973
- OKADA, T.**
Object-handling system for manual industry
p0101 A79-23464
- OKAUE, S.**
A study of progress in flying performance revealed from daily check sheets in a primary flight training course. III - Comparison of progress between two courses
p0134 A79-27119
- Personality characteristics of pilots on EPSS, MPI and DOSEPU test. II - Comparison among pilots,
p0134 A79-27119

- non-pilot officers and aviation students p0210 A79-38822 p0234 A79-43202
- OKIHAWA, H. Polymers produced by heating an amino acid mixture in sea water enriched with transition elements p0254 A79-46461 p0074 N79-14733
- OLAFSON, B. D. A molecular description of oxygen binding to hemoglobin p0194 N79-23646 p0172 N79-20738
- OLEINIK, B. F. Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads p0160 A79-29270 p0072 N79-14717
- OLIPSON, L. Y. Orenburg symposium on mycotoxins p0175 N79-21749 p0204 A79-37960
- OLINGER, C. P. Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582 p0151 N79-19635
- OLLOP, C. H. A subhuman primate restraint system [AD-A069607] p0279 N79-30915 p0002 A79-10608
- OLREE, H. D. Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695 p0007 A79-20651
- OLSEN, C. C. Effects of phase manipulation on speech intelligibility through communication headsets p0164 A79-30654 p0232 A79-42274
- OLSON, J. E. Biological effects of laser irradiation on nerve cells p0247 N79-27840 p0301 A79-53096
- OLSON, R. D. Cardiovascular studies of reducing and oxidizing agents p0049 N79-12682 p0134 A79-27118
- OLSSON, R. A. Exercise performance and hemodynamics during dietary potassium depletion in dogs p0067 A79-18959 p0097 A79-20651
- OLTMAN, P. K. Eye torsion in response to a tilted visual stimulus p0305 A79-54254 p0086 N79-15590
- OLZAK, L. A. Target-terrain classification and detection performance p0065 A79-18225 p0100 A79-22254
- OMELYANETS, N. I. Microflora of water reclaimed in sealed compartments p0193 N79-23638 p0049 N79-12686
- ONARAL, B. Metal bioelectrode polarization: A frequency and time domain analysis p0176 N79-21755 p0206 A79-37976
- ONO, H. Aximatic summary and deductions from Hering's principles of visual direction p0228 A79-41421 p0197 N79-23665
- OWSTOTT, E. D. Prediction, evaluation, and specification of flying qualities by means of step target tracking p0088 N79-15604 p0307 N79-32828
- OWSTOTT, E. D. Error rate information in attention allocation pilot models p0115 N79-17483 p0309 N79-32840
- OWSTOTT, E. D. Prediction of pilot reserve attention capacity during air-to-air target tracking p0116 N79-17488 p0181 A79-32319
- OPARIN, A. I. Coacervate drops as a model for precellular structures p0204 A79-37960 p0074 N79-14733
- OPARIN, A. I. The study of the origin of life - Results and prospects p0206 A79-37981 p0007 A79-12573
- OPPENHEIMER, J. H. Killfish development in zero-G on COSMOS 782: Fundulus experiment K-104 p0021 N79-11659 p0116 N79-17488
- OPSTAD, P. K. Changes in the circadian rhythm of performance and mood in healthy young men exposed to prolonged, heavy physical work, sleep deprivation, and caloric deficit p0234 A79-43202
- ORESTENKO, Y. N. Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733
- ORLOVA, A. V. Effect of different doses of centimeter-band electromagnetic oscillations of bioluminescence of central nervous system and liver tissues p0172 N79-20738
- ORLOVA, T. A. Dynamics of Cosmonauts' blood biochemistry during space missions p0072 N79-14717
- ORLOVSKII, A. P. Coacervate drops as a model for precellular structures p0204 A79-37960
- ORMEROD, P. S. A system of training in aviation physiology and human factors for Army and Navy helicopter aircrew p0151 N79-19635
- ORNE, D. In-vivo bone strain telemetry in monkeys /M. nemestrina/ p0002 A79-10608
- ORO, J. Prebiotic condensation reactions using cyanamide Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0203 A79-37932
- OROURKE, J. A spherical representation of a human body for visualizing movement p0301 A79-53096
- OSADA, H. Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118
- OSADCHII, L. I. Cardiac and vascular components of the systemic response of blood circulation to orthostatic influence p0097 A79-20651
- OSAWA, T. A study of the effect of forcing function characteristics on human operator dynamics in manual control p0086 N79-15590
- OSER, H. The European life sciences experiments onboard the first Spacelab mission [ASME PAPER 78-ENAS-24] p0007 A79-12573
- OSER, H. The European life sciences experiments onboard the first Spacelab mission p0100 A79-22254
- OSHIMA, R. J. The impact of sulfur dioxide on vegetation: A sulfur dioxide-ozone response model [PB-283604/7] p0049 N79-12686
- OSHIMA, T. Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature p0206 A79-37976
- OSTBERG, O. Physical and mental working environment in a terminal based computer system [BLL-RTS-11634] p0197 N79-23665
- OSTER, C. A. Review of unfolding methods used in the US and their standardization for dosimetry [BNWL-SA-6503] p0307 N79-32828
- OSTROFSKY, B. Application of a structured decision process for proper inclusion of human resources in the design of a power unit support stand [AD-A069978] p0309 N79-32840
- OSTROWSKII, M. A. Photochemical transformations of the visual pigment rhodopsin p0181 A79-32319
- OTTOOLE, B. I. The tilt illusion - Length and luminance changes of induction line and third /disinhibiting/ line

- OTTO, D. A. p0228 A79-41422
Carbon monoxide and human time discrimination -
Failure to replicate Beard-Wertheim experiments
p0102 A79-23472
- OU, L.-C. p0265 A79-47327
Hemoglobinemia in rats exposed to high altitude is
not due to an overload of catabolic mechanisms
p0101 A79-23467
- OVCHAROV, V. p0274 A79-49997
The Meduza experiment: An orbital complex ten
weeks in flight
[NASA-TM-75394] p0169 N79-20714
- OVECHKIN, V. G. p0111 N79-16544
Characteristics of vestibular nystagmus in rats
p0016 N79-10714
- OVITT, T. W. p0265 A79-47327
The development of a digital video subtraction
system for intravenous angiography
p0294 A79-51033
- OWENS, J. H. p0265 A79-47327
Human performance in time-shared verbal and
tracking tasks
[AD-A070275] p0308 N79-32831
- OWENS, L. J. p0165 A79-30667
Prosthesis coupling
[NASA-CASE-KSC-11069-1] p0240 N79-26772
- OKBORROW, G. S. p0298 A79-52279
Thermal resistance of naturally occurring airborne
bacterial spores
p0131 A79-26147
- OYAMA, J. p0244 N79-27825
Studies on the erythron and the ferrokinetic
responses in beagles adapted to hypergravity
p0010 A79-12869
- RBC-/Cr-51/ half-life and albumin turnover in
growing Beagle dogs during chronic radial
acceleration
p0135 A79-27553
- OZEROV, IU. P. p0167 A79-31906
Nystagmographic characterization of responses to
rotation of persons with different
vestibular-vegetative stability
p0188 A79-35122
- P**
- PABON, E. J. J. p0299 A79-52475
Preparation of some prostaglandin E sub 1
omega-homo-prostaglandin E sub 1 esters and
their inhibiting properties on rat blood
platelet aggregation
p0239 N79-26765
- PACE, N. p0105 A79-24520
Continuous metabolic and cardiovascular
measurements on a monkey subject during a
simulated 6-day Spacelab mission
p0229 A79-41713
- Aircraft flight simulation of spacelab experiment
using an implanted telemetry system to obtain
cardiovascular data from the monkey
p0147 N79-19022
- PACHELLA, R. G. p0104 A79-24067
The development of integrated multidimensional
displays
p0187 A79-34990
- PADGAONKAR, A. J. p0207 A79-37983
Anatomical coordinate systems for human body
segments
p0065 A79-18231
- PAINE, G. p0047 A79-15494
Event-driven displays for manipulator control
p0089 N79-15610
- PAK, V. G. p0103 A79-23954
The problem of optimally fast response as solved
by the nerve cell
p0166 A79-31179
- PALACIOS, I. p0161 A79-29300
Effect of hypoxia on mechanical properties of
hyperthyroid cat papillary muscle
p0296 A79-51111
- PALASEK, R. F. p0230 A79-41717
Human Factors Society, Annual Meeting, 21st, San
Francisco, Calif., October 17-20, 1977,
Proceedings
p0035 A79-13181
- PALMER, H. E. p0071 N79-14711
The use of Na-22 as a tracer for long-term bone
mineral turnover studies.
p0098 A79-21245

- Determination of muscle mass changes in legs from
K-40 measurements
p0274 A79-49997
- Kinetic measurements of bone mineral metabolism:
The use of Na-22 as a tracer for long-term bone
mineral turnover studies
[NASA-CR-151868]
p0111 N79-16544
- PALMER, R. F. p0265 A79-47327
The use of Na-22 as a tracer for long-term bone
mineral turnover studies.
p0265 A79-47327
- PALOS, L. A. p0165 A79-30667
Effect of hypoxia on the development of Drosophila
melanogaster /Meigen/
p0244 N79-27825
- PANCHENKO, V. S. p0298 A79-52279
Possibilities of preventing adverse reactions in
simulating the acute period of adaptation to
weightlessness
p0244 N79-27825
- PANFILOV, V. E. p0167 A79-31906
Comparison of physiological effects of head-down
tilting and immersion on the human body
p0298 A79-52279
- PANIN, L. E. p0285 N79-31909
Energetic aspects of adaptation
p0167 A79-31906
- PANJABI, M. M. p0285 N79-31909
A three-dimensional mathematical analogue of the
spine structure: A comprehensive approach
p0285 N79-31909
- PANKOVA, A. S. p0016 N79-10718
Comparative analysis of causes of animal deaths
during chronic exposure to gamma radiation and
the aftereffect period
p0016 N79-10718
- PANOV, A. N. p0299 A79-52475
Some neurochemical characteristics of rats after
space flight in the Cosmos-936 satellite
p0299 A79-52475
- PANT, J. N. p0105 A79-24520
Photochemical synthesis of amino acids from
aqueous solutions of ethyl alcohol,
ammonia/nitrogen under varied conditions
p0105 A79-24520
- PANTLE, A. p0104 A79-24067
Factors controlling the competing sensations
produced by a bistable stroboscopic motion display
p0104 A79-24067
- PAOLUCCI, G. p0291 N79-31947
The information in aircraft accidents investigation
p0291 N79-31947
- PAPAGIANNIS, M. D. p0207 A79-37983
The importance of the physical laws on the origin
and evolution of life
p0207 A79-37983
- PAPIN, J. P. p0047 A79-15494
Selection and techniques for analysis of indices
of visual data reception. II
p0047 A79-15494
- Choice and techniques of analysis of indices for
the perception of visual information. III
p0103 A79-23954
- PAPKOV, M. G. p0161 A79-29300
Paroxysmal disorders of consciousness due to
flight factors
p0161 A79-29300
- PARENOV, G. P. p0230 A79-41717
Biological experiments carried out aboard the
biological satellite Cosmos-936
Materials of the final reports on the joint
Soviet-American experiment on the Kosmos-936
biosatellite
[NASA-TM-75582]
p0071 N79-14711
- PARISI, A. F. p0226 A79-40465
Coronary calcification in the diagnosis of
coronary artery disease
p0226 A79-40465
- PARKER, R. E. p0195 N79-23650
The pulmonary circulation: Studies on alveolar
hypoxia and vascular smooth muscle metabolism
p0195 N79-23650
- PARKEY, R. W. p0098 A79-21245
ST isopotential precordial surface maps in
patients with acute myocardial infarction
p0098 A79-21245

- PARLOW, A. F.**
Effects of space flight on plasma and glandular concentrations of pituitary hormones
p0021 N79-11664
- PARENOV-TRIFILOV, B. I.**
Diagnostics of initial deficiency in cerebral circulation
p0166 A79-31164
- PARENTIER, G.**
The effects of strong shock waves on mortality rates and percentages of pulmonary lesions in rats as a function of the number of exposures [NASA-TM-75598]
p0053 N79-13676
- PAROLLA, D.**
Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures
p0135 A79-27557
- PARRISH, L. D.**
The next decade - Development, training, supervision
p0102 A79-23584
- PARSONS, R. C.**
The biodynamic response of the human body and its application to standards
p0288 N79-31929
- PASSARELLO, C. E.**
Multibody dynamics including translation between the bodies, with application to head-neck systems [AD-A062114]
p0174 N79-20747
- PATHAK, C. K.**
Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions
p0105 A79-24520
- PATON, H. D. B.**
Photochemical synthesis of amino acids from aqueous solutions of ethyl alcohol, ammonia/nitrogen under varied conditions
p0105 A79-24520
- PATTERSON, W. D. M.**
Detection of bubbles in decompression sickness
p0041 A79-13573
- PATTERSON, J. L., JR.**
Monitoring the state of the human airways by analysis of respiratory sound [IAF PAPER 78-66]
p0003 A79-11227
- Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit
p0101 A79-23075
- PATTERSON, R. E.**
Exercise performance and hemodynamics during dietary potassium depletion in dogs
p0067 A79-18959
- PAUL, R.**
Advanced industrial robot control systems [PB-287273/7]
p0113 N79-16558
- PAULING, L.**
Orthomolecular enhancement of human development
p0095 N79-15895
- PAVLOV, G. I.**
Effects of vestibular stimuli on the electrical activity of muscles
p0187 A79-35121
- A method of evaluating the pupillary reaction to vestibular stimuli
p0016 N79-10717
- PCHELILOV, V. P.**
Deductive derivation of a mathematical model for spectral sensitivity of the human organ of sight. I, II
p0166 A79-31178
- PEARCY, M. J.**
A failure criterion for human, vertebral, cancellous bone
p0285 N79-31912
- PEARSON, W. H.**
Multipurpose digital switching and flight control workload [AD-A069606]
p0281 N79-30934
- PECHYNEKOVES, K.**
Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms [NBC/CNR-TT-1924]
p0120 N79-17521
- PEDLEY, T. J.**
Mechanics of arterial blood flow
p0247 N79-27846
- Mechanics of the microcirculation
p0247 N79-27847
- PEELEER, J. T.**
Thermal resistance of naturally occurring airborne bacterial spores
p0131 A79-26147
- PELI, E.**
Latency of peripheral saccades
p0278 A79-50987
- PELLIN, M. J.**
In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria
p0131 A79-26100
- PELTIER, W.**
Methods for measuring the acute toxicity of effluents to aquatic organisms [PB-289605/8]
p0170 N79-20719
- PENGELLY, L. D.**
Contribution of rib cage and abdomen-diaphragm to tidal volume during CO₂ rebreathing
p0185 A79-33805
- PENN, J. W.**
Electrical parameter values of some human tissues in the radiofrequency radiation range [AD-A064202]
p0189 N79-22754
- PENPARGUL, S.**
Effect of exercise on collateral development in dogs with normal coronary arteries
p0067 A79-18960
- Effect of physical conditioning on cardiac mitochondrial function
p0068 A79-18966
- PEQUIGNOT, J. M.**
Metabolic adrenergic changes during submaximal exercise and in the recovery period in man
p0305 A79-54267
- PEREVALOV, G. M.**
Dynamics of the impulse activity of the neurons in the posterior hypothalamus upon exposure to microwaves
p0188 A79-35918
- PEREZ-POVEDA, D. A.**
The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204]
p0055 N79-13693
- PERMIAKOV, B. V.**
Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability
p0188 A79-35122
- PERNOD, J.**
Mitral prolapse and acceleration
p0103 A79-23951
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His
p0103 A79-23955
- Cardiac conduction and aptitude problem of fliers. The benefits of endocardial recording of the His bundles
p0030 N79-11716
- The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers
p0030 N79-11718
- PERRENOUD, J.-F.**
The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases
p0256 A79-46600
- PERSIDSKII, IU. V.**
Circadian rhythm of electrolyte uremia in healthy persons
p0257 A79-46681
- PERVUSHIN, V. I.**
Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man
p0192 N79-23634
- PESHOCK, R. H.**
ST isopotential precordial surface maps in patients with acute myocardial infarction
p0098 A79-21245
- PESQUIES, P. C.**
Two primate biological facility module in Spacelab [IAF PAPER 78-70]
p0003 A79-11229
- PESQUIES, P.-C.**
The electrocardiogram recorded by telemetry during a parachute jump, compared to a trace during stress tests - A preliminary study of 29 cases
p0256 A79-46600

- PETERSEN, R. J.
Evaluation of fluoropolymer membranes in oxygenators
[PB-286698/6] p0112 N79-16547
- PETERSIK, J. T.
Factors controlling the competing sensations
produced by a bistable stroboscopic motion display
p0104 A79-24067
- PETERSON, D. D.
Space radiation dosimetry onboard COSMOS 936: US
portion of experiment K-206
p0023 N79-11677
- PETERSON, J. J.
Some Bayesian inference procedures for use in
developing an impact acceleration injury
prediction model
[AD-A067228] p0220 N79-25741
- PETERSON, K.
Method and arrangement for the preparation of
solid foodstuffs for long-term storage
[BLL-RTS-11445] p0145 N79-18590
- PETERSON, R. W.
Some considerations of hazards in the use of
lasers for artistic displays
[PB-294513/7] p0281 N79-30931
- PETLENKO, B. I.
Voice communication in artificial atmospheres
p0048 A79-16500
- PETRENKO, V. S.
Comparative study of acetylcholinesterase
inactivation in warm-blooded animals and insects
with substituted vinyl phosphates
p0121 N79-17527
- PETRES, J.
Uncommon hypersensitivity to contacting cold water
and cold air with propagated reflex-like
erythema development
[BLL-RTS-11644] p0279 N79-30917
- PETROFSKY, J. S.
Frequency and amplitude analysis of the EMG during
exercise on the bicycle ergometer
p0297 A79-52022
- PETROVSKIY, A. B.
Problem-oriented program approach to planning and
management of medicine
p0078 N79-14762
- The systems analytic approach to the problem of
classification of scientific medical research
p0078 N79-14766
- PETTERSSON, L. E.
A mechanism for high-frequency electromagnetic
field-induced biological damage
p0231 A79-41847
- PETTYJOHN, F. S.
Left Anterior Hemiblock (LAH): Diagnosis and
aeromedical risk
p0029 N79-11715
- The interaction of carbon monoxide and altitude on
aviator performance: Pathophysiology of
exposure to carbon monoxide
[AD-A055212] p0056 N79-13694
- PETUKHOVA, G. N.
Effect of acute hypoxia on some parameters of
renal excretory function and renal hemodynamics
p0245 N79-27828
- PEW, R. W.
Development of human performance models for
man-machine system simulation
[AD-A069879] p0282 N79-30940
- PEYRIN, L.
Metabolic adrenergic changes during submaximal
exercise and in the recovery period in man
p0305 A79-54267
- PEZOLDT, V. J.
Arousal from sleep by emergency alarms:
Implications from the scientific literature
[PB-284044/5] p0051 N79-12700
- PEZZACK, J. C.
Aircraft helmet protection against potential
cerebral concussion in low-magnitude impacts
p0201 A79-37705
- PFHOL, R.
Radiobiological investigations in Cosmos 782 space
flight /Biobloc SF1 experiment/
p0006 A79-12518
- PHELAN, J. M.
The effects of temperature, salinity, and other
factors on the growth and formation of
UV-absorbing substances by the fungus Aspergillus
p0005 A79-12512
- PHILLIPS, J. H.
Developing closed life support systems for large
space habitats
[AAS PAPER 78-145] p0099 A79-21260
- PHILLIPS, M. S.
Application of biodynamic models to the analysis
of F-16 canopy birdstrike
p0285 N79-31911
- PHILIP, R. P.
Organic geochemical studies on kerogen precursors
in recently deposited algal mats and oozes
p0001 A79-10419
- PHILPOTT, D. E.
A study of axonal degeneration in the optic nerves
of aging mice
p0005 A79-12123
- Effects of high-LET neon /Ne-20/ particle
radiation on the brain, eyes and other head
structures of the pocket mouse - A histological
study
p0252 A79-44798
- Cosmic ray effects on the eyes of rats flown on
COSMOS 782
p0022 N79-11669
- Effects of weightlessness on the embryonic
development and aging of Drosophila
p0022 N79-11670
- Effects of weightlessness on the genetics and
aging process of drosophila melanogaster
p0023 N79-11673
- Cosmic ray effects on the eyes of stationary and
centrifuged rats flown on COSMOS 936, experiment
K-207
p0024 N79-11678
- PHINNEY, D. E.
Meteorological limits on the growth and
development of screwworm populations
[NASA-CR-151873] p0107 N79-16512
- PIANEZZI, B.
Radiobiological investigations in Cosmos 782 space
flight /Biobloc SF1 experiment/
p0006 A79-12518
- Development capacity of artemia cysts and lettuce
seeds flown in Cosmos 936 and directly exposed
to cosmic rays
p0127 A79-24632
- PICCIOLO, G. L.
Determination of antimicrobial susceptibilities on
infected urines without isolation
[NASA-CASE-GSC-12046-1] p0076 N79-14750
- PIEHL, K.
Phosphorylase in human skeletal muscle during
exercise and electrical stimulation
p0067 A79-18962
- PIERCE, B.
Linear modelling of attentional resource allocation
p0091 N79-15626
- PIERGALLINI, J. R.
Heat transfer principles in personal protection
applications
p0043 A79-14405
- Thermal conduction effects in human skin
p0265 A79-47329
- Thermal conduction effects in human skin. 1:
Experimental data acquisition
[AD-A068479] p0259 N79-28871
- Thermal conduction effects in human skin. 3:
Influence of epidermal thickness and exposure time
[AD-A068481] p0259 N79-28872
- PIERRYNOWSKI, M. R.
Aircraft helmet protection against potential
cerebral concussion in low-magnitude impacts
p0201 A79-37705
- PIJANOWSKI, G. J.
The relationship between adult articular cartilage
thickness and dynamic loads of a uniaxial joint
p0154 N79-19671
- PIJOUN, M.
Measuring systolic time intervals at rest and
under stress by external methods. Advantages in
the evaluation of fliers
p0030 N79-11717
- PILIPYUK, Z. I.
Effect of hypokinesia on animal resistance to
chemical agents
p0109 N79-16524
- PIMENOVA, L. A.
The systems analytic approach to the problem of
classification of scientific medical research
p0005 A79-12512

PERSONAL AUTHOR INDEX

POIROT

- PINEMOVA, L. Y. p0078 N79-14766
 Current status and prospects of continued refinement of planning and coordination of scientific medical research p0078 N79-14765
- PINCUS, J. H. p0078 N79-14766
 Study of pharmaceutical industrial problems [NASA-CR-160267] p0248 N79-27852
- PINEGIN, B. V. p0121 N79-17530
 Intestinal autoflora as an indicator of severity of radiation lesion
- PINSKI, M. S. p0184 A79-33638
 The objective evaluation of aircrew protective breathing equipment. III - Improved types of mask/goggles combinations. IV - Fullface masks and hoods suitable for flight attendant use
- PIPER, C. F. p0056 N79-13694
 The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212]
- PIPKO, D. p0114 N79-16793
 Antiradiation suit and other special clothing at industrial safety exhibition
- PIROVNE, L. A. p0296 A79-51112
 Application of an isolated heart model to investigate blood-oxygen delivery
- PIRTLE, R. p0178 N79-21773
 Test and evaluation of head restraints, seat backs, and anchorages in vehicles subjected to rear impact collision [PB-289779/1]
- PIRTSKHALAVA, A. V. p0167 A79-32100
 Characteristics of serious carbon monoxide poisoning
- PISOTSKA, H. V. p0121 N79-17527
 Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates
- PISTOLE, T. G. p0266 A79-47335
 Increased survival in experimental dog heatstroke after reduction of gut flora
- PITT, B. R. p0024 N79-11682
 The effects of carbon monoxide and cyanide on the brain
- PITTS, M. L. p0055 N79-13693
 The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204]
- PLAKHUTA-PLAKUTINA, G. I. p0014 N79-10704
 State of spermatogenesis in rats flown aboard Kosmos-690 biosatellite
 Spematogenesis in dogs during many years of chronic exposure to gamma radiation and in the aftereffect period p0073 N79-14727
- Morphological distinctions of the rat thyroid and parathyroid following long-term space flights p0246 N79-27835
- PLANET, H. p0006 A79-12518
 Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/
- Genetic effects of balloon flight in Drosophila melanogaster p0006 A79-12520
- Development capacity of artemia cysts and lettuce seeds flown in Cosmos 936 and directly exposed to cosmic rays p0127 A79-24632
- Space biology and aerospace medicine p0226 A79-40734
- Preliminary results of Cyotos experiment flows in Salyut VI - Investigations of Paramecium aurelia p0229 A79-41709
- PLANK, G. R. p0051 N79-12702
 Review of chest deflection measurement techniques and transducers [PB-283654/2]
- Effects of deceleration and rate of deceleration on live seated human subjects [PB-284653/3] p0057 N79-13702
- PLANTEGENEST, M. T. p0100 A79-22771
 Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image
- PLAS, F. p0030 N79-11717
 Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers
- PLATONOVA, R. N. p0230 A79-41717
 Biological experiments carried out aboard the biological satellite Cosmos-936 Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
- PLEASANT, L. G. p0179 N79-21777
 Publications of the planetary biology program for 1977: A special bibliography [NASA-TM-80338]
- Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
- PLEUHE, J. p0139 A79-28375
 Smooth pursuit eye movements - Is perceived motion necessary
- PLONSEY, R. p0226 A79-40649
 The eccentric spheres model as the basis for a study of the role of geometry and inhomogeneities in electrocardiography Fundamentals of electrical processes in the electrophysiology of the heart p0304 A79-53532
- PLOWMAN, S. A. p0234 A79-43201
 Response of women mountaineers to maximal exercise during hypoxia
- PLUMMER, R. P. p0119 N79-17519
 Speech as a pilot input medium
- PLYUSHCH, R. A. p0173 N79-20741
 Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields
- PNUELI, D. p0231 A79-41770
 Thermal bounds to the time of stay of human beings in enclosures
- PODVIGINA, T. T. p0015 N79-10712
 Tissular respiration of the brain after exposure of rats to hypertoxic helium and oxygen mixtures at atmospheric and elevated pressure
- POGGIO, T. p0170 N79-20724
 Bandpass channels, zero-crossings, and early visual information processing [AD-A062338]
- POGODATEV, G. V. p0078 N79-14761
 A complex system for planning scientific medical research
- POGORELYI, V. E. p0221 A79-36098
 Self-regulation of cerebral circulation under orthostatic influences
- POHLMANN, L. D. p0173 N79-20743
 Air-to-air combat skills: Contribution of platform motion to inertial training [AD-A062738]
- POIRIER, J. L. p0103 A79-23953
 Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction
- POIRIER, J.-L. p0047 A79-15490
 Special tests for astronaut selection - Study of cardiovascular reactions by the orthostatism test
- POIROT Evaluation of the amount of exposure to vibrations transmitted to the whole body case of vibrations

- due to a loader mounted on caterpillar tracks, a fork-lift truck and a hydraulic excavator [RAE-LIB-TRANS-1930] p0080 N79-14773
- POLA, J.**
The role of perceived motion in smooth pursuit eye movements p0225 A79-40184
- POLIAKOV, B. I.**
Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability p0188 A79-35122
- POLIS, B. D.**
Molecular determinants for the prediction and survival of ischemic anoxic stress pathology p0027 N79-11700
- POLIVODA, L. V.**
Experiment Chlorella 1 on board of Salyut 6 [IAP PAPER 78-53] p0003 A79-11223
- POLLAK, V.**
Thermally induced retina injury due to high doses of optical radiation p0278 A79-50974
- POLLARD, G. D.**
In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
- POONAMPERUMA, C.**
Prebiotic molecular evolution p0203 A79-37928
- Synthesis of amino acids under primitive earth conditions in the presence of clay p0203 A79-37930
- Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
- PONOMARENKO, V. A.**
Experimental and psychological investigations in aviation and astronautics p0041 A79-13998
- POPE, D. H.**
Effects of low temperature on in vivo and in vitro protein synthesis in Escherichia coli and Pseudomonas fluorescens p0131 A79-26141
- POPOV, S.**
Elicited acoustic responses to meaningful and meaningless verbal stimuli p0276 A79-50654
- POPOV, V. I.**
Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
- Genetic effects of cosmic radiation on bacteriophage T4Br/+ /On materials of biological experiment Soyuz-Apollo/ p0229 A79-41708
- POPOVA, A. F.**
Influence of orbital flight conditions on formation of genitals in Muscari racemosum and Anethum graveolens p0230 A79-41718
- POPOVA, L. A.**
Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
- POPP, R. L.**
Clinical applications of new echocardiographic techniques p0295 A79-51040
- PORTERFIELD, J. L.**
Two dimensional eye tracking: Sampling rate of forcing function p0090 N79-15617
- Head tracking at large angles from the straight ahead position p0090 N79-15618
- PORTUGALOV, V. V.**
Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- Effects of space flight on course of radiation lesions in rat lymphoid organs p0107 N79-16516
- Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
- The combined effect of space flight factors and radiation on rat skeletal muscles p0244 N79-27821
- POSPELOV, E. I.**
The influence of SHF electromagnetic fields on the secretory function of the stomach p0173 N79-20740
- POSTNIKOV, V. S.**
Ultrasonic doppler directional blood flow velocity meter [RAE-LIB-TRANS-1918] p0279 N79-30920
- POSTON, A. M.**
A survey of existing computer programs for aircrew workload assessment [AD-A058518] p0059 N79-13718
- A photometric and legibility assessment of Aerospace Optics, Incorporated Vivisun 20/20 display [AD-A067668] p0242 N79-26786
- POSTOYENKO, Y. K.**
New principles of automation of biomedical research p0078 N79-14763
- POTAPOV, IU. V.**
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- POTASH, B.**
Determination of the secondary production and population dynamics of the zooplankton of the Lake Champlain ecosystem [PB-286094/8] p0084 N79-15572
- POTEMKIN, E. L.**
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- POTTIER, A.**
Selection and techniques for analysis of indices of visual data reception. II p0047 A79-15494
- Choice and techniques of analysis of indices for the perception of visual information. III p0103 A79-23954
- POWELL, W. J., JR.**
Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle p0296 A79-51111
- POWERS, W. E.**
Clinical importance of directional statistics for electrocardiographic differentiation of smoking habits p0098 A79-21246
- POWLES, A.**
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression p0185 A79-33806
- POZHAROV, V. P.**
Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
- POZHARSKIY, G. O.**
Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715
- POZIN, N. V.**
Elements of the theory of biological analyzers p0132 A79-26450
- PRAH, J. D.**
Carbon monoxide and human time discrimination - Failure to replicate Beard-Wertheim experiments p0102 A79-23472
- PREISS, H.**
Medical characteristics of the Spacelab life support system [DGLR PAPER 78-130] p0041 A79-14082
- PREVOST, R. J.**
The distribution of cadmium and other metals in human tissues [PB-285200/2] p0057 N79-13703
- PRILOUTSKII, B. I.**
Biomechanical properties of muscles and the efficiency of movement p0276 A79-50652
- PRINS, H. W.**
Cu-content of the liver of young mice in relation to a defect in the Cu-metabolism [IRI-133-77-02] p0239 N79-26764

PERSONAL AUTHOR INDEX

RAMACCI, C. A.

- Results of a ^{64}Cu -loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04] p0240 N79-26774
- PRINZ, W.**
Locus of the effect of specific practice in continuous visual search p0129 A79-25099
- PRITCHARD, G. C.**
Safety evaluation tests of personal protective equipment for ordnance operations [AD-A058987] p0053 N79-12712
- PRIVITZER, E.**
Refinement and validation of a mathematical model of the human torso p0247 N79-27841
- A three dimensional discrete element dynamic model of the spine, head and torso p0285 N79-31910
- Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826
- PROHL, J.**
Standardized examination methods in ergometry p0029 N79-11710
- PROHOPSKY, E. W.**
Microwave frequencies and the structure of the double helix p0082 N79-15559
- PROKHVATILO, E. V.**
Decrease in the functional abilities of the heart as a result of exposure of an organism to an electromagnetic field of industrial frequency p0172 N79-20733
- PROUST, J.**
Genetic effects of balloon flight in *Drosophila melanogaster* p0006 A79-12520
- PRUDENT, J.**
The use of biostereometry in helicopter cockpit design p0150 N79-19629
- PRUDHOMMEAU, C.**
Genetic effects of balloon flight in *Drosophila melanogaster* p0006 A79-12520
- PRUBETT, R.**
A nonlinear mapping approach to discrimination of sleep stages from the human electroencephalogram p0314 N79-33817
- PRUSHIK, S.**
Recruit training/supernumerary system p0041 A79-13283
- PRUTHI, U. S.**
Accident injuries and flying fitness p0182 A79-33189
- PSHENNIKOVA, M. G.**
Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylycyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
- PUIMEAN-CHIEZE, J. P.**
Selection and techniques for analysis of indices of visual data reception. II p0047 A79-15494
- Choice and techniques of analysis of indices for the perception of visual information. III p0103 A79-23954
- PULEO, J. R.**
Thermal resistance of naturally occurring airborne bacterial spores p0131 A79-26147
- PUMA, S. C.**
Test and evaluation in the acquisition process - A look at the PLZT goggle p0184 A79-33642
- PURCELL, D.**
Communications management by the remote system - An adaptive approach p0041 A79-13226
- PURINIA, B. A.**
Investigation of blood subjected to volume tension p0275 A79-50261
- PURKAYASTHA, S. S.**
Responses of high altitude natives to a standard cold test at sea level p0164 A79-30658
- PURSHOTTAI, T.**
Plasma electrolytes in relation to altitude tolerance in rats p0163 A79-30652
- PUTHOFF, H.**
Development of techniques to enhance man/machine communication [NASA-CR-157886] p0032 N79-11730
- PUTNAM, D. F.**
Microbial Check Valve for Shuttle [ASME PAPER 78-ENAS-27] Water system microbial check valve development [NASA-CR-151843] p0008 A79-12576 p0032 N79-11733
- PUTMAN, T. W.**
Flight test evaluation of an RAP high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
- PUTZ, V. B.**
The effects of carbon monoxide on dual-task performance p0161 A79-29716
- PYTLEWSKI, L. L.**
Mechanisms of activated carbon degradation by perspiration [AD-A059872] p0080 N79-14777
- Q**
- QUEVEDO, C. E.**
Basic biomechanics equations for cardiovascular flow p0304 A79-53534
- R**
- RABB, R. L.**
The role of insect dispersal and migration in population processes p0147 N79-19593
- RABOZIN, V. N.**
Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- RADCHENKO, N. D.**
Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792
- RADKE, H.**
A method for semi-automatic analysis of eye movements [DLR-MITT-79-02] p0283 N79-30946
- RADMER, R. J.**
Photochemistry and enzymology of photosynthesis [COO-3326-70] p0239 N79-26763
- RAFFLEB, H.**
Cell biology basis for the life of an organism in the radiation field [ANL-TRANS-1152] p0261 N79-29786
- RAHLMANN, D. F.**
Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713
- RAI, K.**
Delayed effects of alcohol ingestion on + Gz tolerance p0272 A79-49730
- Spinal injury pattern due to ejections p0272 A79-49734
- RAIBERT, M. H.**
A model for sensorimotor control and learning p0005 A79-12122
- RAINNEY, R. C.**
Possible impact of radar on pest management operations p0148 N79-19599
- RAITSIN, L. B.**
Biomechanical properties of muscles and the efficiency of movement p0276 A79-50652
- RAIZNER, A. E.**
The evolutionary pattern of exercise-induced ST segment depression p0251 A79-44166
- RALCHEV, K. K.**
Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- RAMACCI, C. A.**
Normal and pathological cardiovascular findings in applicants to the Air Force service p0031 N79-11722

- RAMACHANDRAN, N.**
 Effects of partial sleep deprivation on psychological performance and behaviour
 p0200 A79-37130
- Design, fabrication and utility of a flight oriented performance test
 p0271 A79-49728
- RAMAHNA, R.**
 Aviation and radiation hazards
 p0271 A79-49727
- RAMBAUT, P. C.**
 Prolonged weightlessness and calcium loss in man
 [IAF PAPER 78-48] p0002 A79-11219
- RAMBLER, M.**
 An ultraviolet light induced bacteriophage in Beneckeia gazogenes
 p0254 A79-46463
- RAMOS, M. U.**
 Instrumentation and techniques for the measurement of muscular strength and endurance in the human body
 [AD-A061023] p0155 N79-19681
- RANSEY, H. R.**
 A critically annotated bibliography of the literature on human factors in computer systems [AD-A058081] p0052 N79-12707
- RANSEY, J. D.**
 A composite view of task performance in hot environments
 p0036 A79-13186
- RAMSEY, S. D., JR.**
 Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0] p0085 N79-15581
- RANADE, A.**
 Analysis of inert gas exchange in the middle ear p0017 N79-10723
- RAND, P. W.**
 Application of an isolated heart model to investigate blood-oxygen delivery p0296 A79-51112
- RANDALL, D. R.**
 Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling)
 p0286 N79-31915
- The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845
- RANGARAJ, M. R.**
 Homomorphic analysis and modeling of ECG signals p0210 A79-39973
- RAO, G. U. V.**
 Autoradiographic enhancement of mammograms p0227 A79-40773
- RAO, P. K.**
 Adaptive estimation schemes for minimizing uncertainty in manual control tasks p0269 A79-48013
- RAPOPORT, I. A.**
 Role of n-aminobenzoic acid in repairing UV and gamma radiation damage p0301 A79-53211
- RAPPAPORT, W. H.**
 Telehealth handbook: A guide to telecommunications technology for rural health care [PB-292557/6] p0241 N79-26778
- RAPUTO, A. G.**
 Detection of conflict states in air traffic control of airport zones p0166 A79-31181
- RASHEVSKAIA, D. A.**
 Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite p0299 A79-52475
- RASMUSSEN, P. G.**
 Visual acuity of the aging hyperopic eye in the intermediate range p0037 A79-13198
- Aeromedical implications of the X-Chrom lens for improving color vision deficiencies p0135 A79-27556
- Visual performance assessment through clear and sunscreen-treated windows
 [AD-A059750] p0080 N79-14775
- The optical properties of smoke-protective devices [FAA-AM-78-41] p0242 N79-26784
- RASMUSSEN, R. E.**
 Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
- RASSOW, B.**
 The retinal resolving power measured by laser interference fringes p0304 A79-54091
- RASSVETAYEV, V. V.**
 Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
- RATLIFF, P. R.**
 A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983] p0308 N79-32833
- RATLIFF, J. D.**
 A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983] p0308 N79-32833
- RATTNER, B. A.**
 Cross-adaptive effects of cold, hypoxia, or physical training on decompression sickness in mice p0268 A79-47855
- RAUPMANN, B.**
 Effect of electromagnetic fields in long-, medium-, and short-wave ranges on biological objects p0185 A79-33713
- RAULIN, F.**
 Incorporation of sulphur in chemical evolution p0203 A79-37938
- Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
- RAY, G. C.**
 Radio tracking of a fin whale /Balaenoptera physalus/ p0061 A79-18008
- RAY, L. L.**
 Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
- Citric acid enhancement of copper sulfate toxicity to the blue-green algae "aphanizomenon flos-aquae" and "microcystis aeruginosa" [PB-291637/7] p0189 N79-22751
- RAY, W. J.**
 Evaluation of biofeed therapy [PB-287777/7] p0123 N79-17543
- Evaluation of clinical biofeedback [PB-287776/9] p0123 N79-17544
- RAZYULITE, R. I.**
 Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- READER, D. C.**
 Head acceleration and psychomotor performance p0135 A79-27559
- Pilot incapacity in flight p0291 N79-31950
- REALS, J. P.**
 The use of aviation pathology and aviation medicine as proof of liability and damage p0100 A79-22704
- REALS, W. J.**
 The use of aviation pathology and aviation medicine as proof of liability and damage p0100 A79-22704
- REAM, A. K.**
 Telemetry of intracranial pressure p0227 A79-41400
- REASON, J. T.**
 Voluntary movement control and adaptation to cross-coupled stimulation p0009 A79-12860
- REBOULET, R. C.**
 Photometric methods for the analysis of human kinematic responses to impact environments

[AD-A062006] REBUCK, A. S. Contribution of rib cage and abdomen-diaphragm to tidal volume during CO ₂ rebreathing	p0157 N79-19690 p0185 A79-33805	p0227 A79-41230
Absence of effects of hypoxia on small airway function in humans	p0268 A79-47851	
RECHWITZER, P. A. Effects of endurance training on left ventricular dimensions in healthy men	p0237 A79-43706	
REDDICK, E. J. Evaluation of the helicopter in aeromedical transfers	p0128 A79-24638	
REDDY, B. R. S. Aerobiotelemetry from a fighter aircraft	p0200 A79-37131	
REED, J. C. Air-to-air combat skills: Contribution of platform motion to inertial training [AD-A062738]	p0173 N79-20743	
REED, L. D. Skin temperature changes in paradoxical sleep in man in the cold	p0201 A79-37706	
REEPS, S. M. Development of integrated tubing fabric for liquid conditioning undergarments	p0044 A79-14415	
Development of the CWU-48/P high temperature resistant aramid knit flyer's coverall [AD-A059128]	p0059 N79-13716	
REEVES, J. T. Noninvasive assessment of pulmonary hypertension [PB-285121/0]	p0057 N79-13701	
REGAN, D. The visual perception of motion in depth	p0210 A79-39087	
REGELSON, W. The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (ENR)	p0018 N79-10733	
REIBER, J. H. C. Contour detector and data acquisition system for the left ventricular outline [NASA-CASE-ARC-10985-1]	p0017 N79-10724	
REICKS, M. Balance training of the equilibrium organ and its effect on flight strategy	p0242 N79-27074	
REID, L. Growth of pulmonary circulation in normal pig - Structural analysis and cardiopulmonary function	p0067 A79-18961	
Vehicle Steering control: A model of learning	p0089 N79-15606	
REILLY, T. Comparison of hormone and electrolyte circadian rhythms in male and female humans	p0004 A79-11948	
REIN, R. An approach to the origin of self-replicating system. I - Intermolecular interactions	p0204 A79-37948	
REINDELL, H. Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness	p0030 N79-11721	
REINHARDT, B. Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects	p0297 A79-52023	
REISCHL, P. Application of pseudo random binary sequence input to identification of respiratory control dynamics	p0268 A79-48011	
REISING, J. M. Multifunction keyboard configurations for single-seat, air-to-ground fighter cockpits	p0039 A79-13213	
REITZ, G. The Biostack experiment in the U.S. long exposure duration test program		
REMBAUM, A. Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors	p0274 A79-50230	
Design of polymeric immunomicrospheres for cell labelling and cell separation	p0275 A79-50234	
REMEK, V. Communication problems of international crews [IAP PAPER 79-A-23]	p0303 A79-53425	
REMINGTON, M. Advanced industrial robot control systems [PB-287273/7]	p0113 N79-16558	
REMMERS, E. P. A numerical method of film analysis with differentiation	p0061 A79-17585	
RENDA, A. Growth of pulmonary circulation in normal pig - Structural analysis and cardiopulmonary function	p0067 A79-18961	
RENEHANN, H. H. Cardiological findings in 115 pilots: Diagnoses and assessment of their flying fitness	p0030 N79-11721	
RENNIE, P. A. Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1]	p0050 N79-12694	
REPÄ, B. S. The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance	p0089 N79-15608	
The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator [RS-GMR-2394]	p0115 N79-17484	
REPPERGER, D. W. An algorithm to ascertain critical regions of human tracking ability	p0163 A79-30218	
A method motion simulator design based on modeling characteristics of the human operator	p0091 N79-15623	
A relationship between eye movement patterns and performance in a precognitive tracking task	p0116 N79-17490	
RESHETNIKOV, M. M. Role of autogenic training in psychophysiological conditioning of aviation school students	p0098 A79-21244	
RESWICK, J. B. Prosthesis coupling [NASA-CASE-KSC-11069-1]	p0240 N79-26772	
REUL, H. Theoretical foundations of cardiovascular processes	p0304 A79-53531	
REVA, F. V. Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia	p0313 N79-33809	
REVZIN, A. M. Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs [AD-A070299]	p0314 N79-33821	
REYES, A. L. Ecology and thermal inactivation of microbes in and on interplanetary space vehicle components [NASA-CR-158627]	p0197 N79-25705	
REYNOLDS, H. M. Anatomical frames of reference and biomechanics	p0065 A79-18230	
The inertial properties of the body and its segments	p0033 N79-11738	
REYSA, R. P. Test evaluation of space station ECLSS maintenance concepts [ASME PAPER 78-ENAS-43]	p0009 A79-12589	
RHODE, E. A. Tolerance of domestic fowl to high sustained +6z	p0127 A79-24630	
Influence of the ambient acceleration field upon acute acceleration tolerance in chickens	p0230 A79-41715	

- RICE, G. P.
Left Anterior Hemiblock (LAH): Diagnosis and aeromedical risk
p0029 N79-11715
- RICHARD, G. L.
Compensation for transport delays produced by computer image generation systems [AD-A056720]
p0019 N79-10738
- RICHARDS, K. L.
A sample volume tracking unit for pulsed Doppler echocardiography
p0200 A79-36869
- RICHARDS, W. A.
Experiments in texture perception [AD-A059630]
p0086 N79-15587
- RICHESON, M. E.
A theoretical model to estimate some ergonomic parameters from age, height and weight
p0132 A79-26150
- RICHMOND, R.
A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4]
p0059 N79-13719
- A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2]
p0059 N79-13720
- RICOILLEY, G.
Preliminary results of Cytos experiment flows in Salyut VI - Investigations of *Paramechium aurelia*
p0229 A79-41709
- RIEDEL, S. A.
Investigation of nonlinear motion simulator washout schemes
p0091 N79-15624
- RIEDERER, S. J.
Real-time computerized fluoroscopic cardiac imaging
p0294 A79-51035
- RIEKSTS, G. A.
The use of Na-22 as a tracer for long-term bone mineral turnover studies.
p0265 A79-47327
- Determination of muscle mass changes in legs from K-40 measurements
p0274 A79-49997
- RIFKIN, R. D.
Coronary calcification in the diagnosis of coronary artery disease
p0226 A79-40465
- RIGAUDIERE, F.
An apparatus for studying electroretinographic responses under conditions of space flight
p0006 A79-12517
- RIGDEN, P. W.
Cockpit thermal stress and aircrew thermal strain during routine Jaguar operations
p0266 A79-47334
- RIGGS, L. A.
Upper-velocity threshold for detection of movement
p0299 A79-52541
- RIMLAND, B.
Hemispheric asymmetry as related to pilot and radar intercept officer performance [AD-A068087]
p0289 N79-31935
- RINARD, G. A.
Hybridization of biomedical circuitry [NASA-CR-151874]
p0111 N79-16543
- RIPPO, A. J.
Telemedicine: An expanding new science on land and sea
p0146 N79-19020
- RITCHIE, M. L.
Object, illusion and frame of reference as design criteria for computer-generated displays
p0137 A79-28157
- RITTER, M.
Perception of depth - Processing of simple positional disparity as a function of viewing distance
p0139 A79-28197
- RIVA, C. E.
Laser Doppler technique for measurement of eye movement
p0233 A79-42450
- ROARK, M.
The effects of closed loop tracking on a subjective tilt threshold in the roll axis
p0090 N79-15620
- ROBERTS, D. E.
The effects of dehydration on peripheral cooling [AD-A065332]
p0220 N79-25745
- ROBERTS, E., JR.
Digital enhancement of computerized axial tomograms
p0004 A79-11544
- ROBERTS, H. P.
Control of skin blood flow during exercise - Thermal and nonthermal factors
p0185 A79-33807
- ROBINSON, C. P.
Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4]
p0051 N79-12698
- ROBINSON, C. S.
Biped stability considerations with vestibular models
p0066 A79-18287
- ROBINSON, G. H.
Effects of information processing requirements on reaction time of the eye
p0064 A79-18219
- Dynamics of the eye and head during movement between displays - A qualitative and quantitative guide for designers
p0209 A79-38362
- Effects of information processing requirements on reaction time of the eye [AD-A060099]
p0080 N79-14778
- ROBINSON, J.
A study of noninvasive blood pressure measurement techniques
p0294 A79-51036
- ROBINSON, J. E.
Temperature uniformity in hyperthermal tumor therapy
p0018 N79-10730
- ROCKAPELLE, E. F.
Food packages for Space Shuttle [ASME PAPER 78-ENAS-13]
p0007 A79-12562
- RODARTE, J. R.
Distribution of regional volumes and ventilation in excised canine lobes
p0236 A79-43703
- RODGERS, J. L.
MM/I, a man - machine interface: A contribution towards a standard [NPL-CSU-2/78]
p0197 N79-23669
- RODINA, G. P.
Recovery of hemopoiesis in rats exposed to radiation during space flight
p0014 N79-10701
- ROEBELEN, G. J., JR.
A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19]
p0007 A79-12568
- ROEGE, R. E.
The effects of dehydration on peripheral cooling [AD-A065332]
p0220 N79-25745
- ROEGER, W.
Increasing pilot's performance capacity during flight through use of a control element serving as information carrier [DGLR PAPER 78-152]
p0042 A79-14097
- ROEHBIG, H.
The development of a digital video subtraction system for intravenous angiography
p0294 A79-51033
- ROGERS, S. R.
The response of selected terrestrial organisms to the Martian environment - A modeling study
p0136 A79-27928
- ROHRMANN, B.
Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection
p0162 A79-29763
- ROLFE, R. D.
A biochemical basis of obligate anaerobiosis
p0142 N79-18561
- ROMANOV, V. S.
Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation
p0312 N79-33804
- ROMANSKY, M. L.
Stress and fatigue in the driving environment
p0211 N79-24629
- ROMASHKIN-TIMANOV, V. I.
Comparative evaluation of the effectiveness of visual and aural tracking of a sinusoidal signal

- ROHOFF, R. A.
Conjoint effect of physical stress and noise
stress on information processing performance and
cardiac response
p0159 A79-28736
- ROOD, R.
Development of a performance criterion for air
traffic personnel research through air traffic
control simulation
[AD-A058082]
p0161 A79-29715
- ROOBZABAR, A.
A theoretical model to estimate some ergonomic
parameters from age, height and weight
p0132 A79-26150
- ROSCOE, S. W.
Transfer of landing skill after training with
supplementary visual cues
p0138 A79-28167
- ROSE, R. M.
Air traffic controller health change study
[FAA-AM-78-39]
p0122 N79-17534
- ROSEBORO, J. A.
Effect of ultrasonic irradiation on mammalian
cells and chromosomes in vitro
p0134 A79-27239
- ROSEBAUM, R. M.
Morphological and biochemical effects of oxygen
toxicity
[AD-A056778]
p0018 N79-10734
- ROSENBLATT, W. S.
Comparison of circadian rhythms in male and female
humans
p0004 A79-11947
- ROSENFIELD, R. S.
Comparison of plasma and urinary steroids in men
with type A and type B behavior patterns
p0028 N79-11704
- ROSENHAN, E. H.
Comparison of plasma and urinary steroids in men
with type A and type B behavior patterns
p0028 N79-11704
- ROSENTHAL, L. A.
Investigation of techniques to reduce
electrostatic discharge susceptibility of EED's
containing plastic plugs
[AD-A059982]
p0093 N79-15638
- ROSENZWEIG, S. M.
US experiments flown on the Soviet Satellite
COSMOS 782
[NASA-TM-78525]
p0020 N79-11651
- US experiments flown on the Soviet satellite
COSMOS 936
[NASA-TM-78526]
p0023 N79-11671
- ROSIER, S.-P.
The electrocardiogram recorded by telemetry during
a parachute jump, compared to a trace during
stress tests - A preliminary study of 29 cases
p0256 A79-46600
- ROSINSKI, R. R.
Perception of graphic displays of space
p0062 A79-18205
- Effect of optical magnification on the perception
of displayed orientation
[AD-A065949]
p0196 N79-23660
- ROSSO, J.
Eye torsion in response to a tilted visual stimulus
p0305 A79-54254
- ROSTOPISHINA, A. V.
Biological experiments carried out aboard the
biological satellite Cosmos-936
p0230 A79-41717
- Effect of accelerations combined with radiation on
occurrence of gene mutations in the drosophila
p0016 N79-10720
- Materials of the final reports on the joint
Soviet-American experiment on the Kosmos-936
biosatellite
[NASA-TM-75582]
p0071 N79-14711
- ROTA, P.
Normal and pathological cardiovascular findings in
applicants to the Air Force service
p0031 N79-11722
- ROTH, J. T.
Seating, console and workplace design - Seated
operator reach profiles
p0036 A79-13188
- ROTH, W. J.
Cold water survival suits for aircrav
p0075 N79-14741
- ROTH, S. D.
Stereo 3-D perception for a robot
p0019 N79-10740
- ROTHBAUER, G.
Influences of joystick spring resistance on the
execution of simple and complex positioning
movements
p0119 N79-17517
- ROTONDO, G.
Cardiovascular diseases as a cause of unfitness
for flying service in aircrav of Italian Air
Force: Etiopathogenesis, influence of
performance in flight, and prevention
p0031 N79-11725
- Sensorial aspects of helicopter operations
p0152 N79-19644
- Human factors in production and prevention of
aircraft accidents due to disorientation in flight
p0291 N79-31952
- ROURKE
Evaluation of the amount of exposure to vibrations
transmitted to the whole body case of vibrations
due to a loader mounted on caterpillar tracks, a
fork-lift truck and a hydraulic excavator
[RAE-LIB-TRANS-1930]
p0080 N79-14773
- ROUSE, W. B.
A model of human decisionmaking in fault diagnosis
tasks that include feedback and redundancy
p0163 A79-30222
- Modeling the human as a controller in a multitask
environment
p0087 N79-15595
- Prospects of a mathematical theory of human
behavior in complex man-machine systems tasks
p0088 N79-15599
- A model of human event detection in multiple
process monitoring situations
p0092 N79-15632
- Pilot decision making in a computer-aided flight
management situation
p0093 N79-15633
- ROUTZAHN, R. L.
Environmental test and evaluation of a molecular
sieve on-board oxygen generation system
[AD-A061531]
p0125 N79-17559
- ROYCHOWDHURY, A.
Incidence of spinal disability amongst IAF pilots
- Follow up of 38 cases
p0201 A79-37133
- ROYER, E. R.
Microbial load monitor
[NASA-CR-160274]
p0243 N79-27815
- ROZOV, A. N.
Biological experiments carried out aboard the
biological satellite Cosmos-936
p0230 A79-41717
- ROZOVA, E. V.
Lung oxygen diffusibility and permeability in dogs
of various ages under normal conditions and in
cases of acute hypoxic hypoxia
p0296 A79-51114
- The effect of the reduction of inspired gas
density on external respiration
p0296 A79-51115
- RUBANOV, A. S.
Thermal effects during the exposure of ocular
fundus tissues to laser radiation
p0234 A79-43057
- RUBANOVICH, E. B.
Some properties of conservative systems
p0221 A79-35942
- RUBINSKAIA, M. L.
Some neurochemical characteristics of rats after
space flight in the Cosmos-936 satellite
p0299 A79-52475
- RUBLEE, P. A.
Bacteria in a North Carolina salt marsh. Standing
crop and importance in the decomposition of
Spartina alterniflora
[PB-288816/2]
p0153 N79-19668
- RUDERMAN, I. W.
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1]
p0175 N79-21750
- RUDICHENKO, V. F.
Dependence of the functional activity of liver
mitochondria on microwave radiation
p0075 N79-14741

- State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field p0075 N79-14742
- RUDNEV, M. I. Changes in the bioelectrical activity of some cerebral structures in rabbits exposed to microwaves p0188 A79-35917
- RUDOMETKIN, N. N. Control of vertical position after flights aboard the Salyut-4 orbital station p0311 N79-33793
- RUDRAPATNA, A. H. A trade-off analysis design tool: Aircraft interior noise-motion/passenger satisfaction model p0112 N79-16549
- RUDY, K. H. Flight prototype CO₂ and humidity control system [NASA-CR-160224] p0222 N79-25760
- RUDY, Y. The eccentric spheres model as the basis for a study of the role of geometry and inhomogeneities in electrocardiography p0226 A79-40649
- RUEHMANN, H. Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations [BMVG-FBWT-78-11] p0146 N79-18593
- RUMMEL, J. A. Life sciences experiments in the first Spacelab mission [ASME PAPER 78-ENAS-26] p0008 A79-12575
- Skylab medical data evaluation program (SMEDEP) [NASA-CR-160279] p0259 N79-28869
- BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft [NASA-TM-58217] p0261 N79-29784
- RUSKE, G. Automatic recognition of spoken words using a functional model of the auditory system p0235 A79-43464
- RUSS, J. Naval aviation training - Perspective and prospects [SAE PAPER 781004] p0130 A79-25886
- RUSTAGI, J. S. Estimation of rate constants in the Michaelis-Menten model [AD-A070360] p0307 N79-32824
- RYAKHOVSKAYA, G. A. Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
- RYAN, L. C. Current role of alcohol as a factor in civil aircraft accidents p0136 A79-27561
- RYCKELYNCK, B. Psychosis in air force flight personnel during the last 25 years p0103 A79-23957
- RYLANDER, R. Startle reactions to simulated sonic booms - Influence of habituation, boom level and background noise p0097 A79-20502
- RYZHKOVA, V. X. Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720
- S**
- SABETTA, F. Computed axial tomography (CAT) [ISS-R-78/4] p0262 N79-29791
- SABOE, E. P. Biological effects of nonionizing electromagnetic radiation. Volume 2, number 4: A digest of current literature [AD-A055569] p0055 N79-13689
- SABUROV, K. A. Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- SACHAR, J. Relating performance in basic electricity and electronics and A schools [AD-A060914] p0085 N79-15584
- SACKNER, M. A. Hemodynamics in teenagers and asthmatic children during exercise p0133 A79-27102
- SACKS, E. J. Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
- SADEH, D. Geotropism of hornet comb construction under persistent acceleration p0006 A79-12514
- SADOSKY, T. L. A prediction model of arm push strength in the transverse plane p0037 A79-13195
- SAPONOV, V. A. Mathematical model of the respiration rhythm generation process p0254 A79-46268
- SAPONOVA, E. M. Amino acids in southern Kamchatka hot springs p0182 A79-33122
- SAGAN, C. Exobiology and the origin of life [NASA-CR-157988] p0081 N79-14782
- SAGAR, K. Effect of hypoxia on mechanical properties of hyperthyroid cat papillary muscle p0296 A79-51111
- SAGE, W. W. Distribution of bluegreen algae in a Mississippi Gulf Coast salt marsh [PB-288982/2] p0153 N79-19667
- SAGUY, I. Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research [NASA-CR-158846] p0260 N79-28880
- SAHAKIAN, B. J. Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
- SAIDA, S. Useful visual field size for pattern perception p0129 A79-25098
- SAIKI, H. Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76] p0301 A79-53285
- SAINI, V. D. Using color substitution pupil response to expose chromatic mechanisms p0265 A79-47116
- SAITO, I. Vigilance and electroencephalogram p0100 A79-22975
- Analysis of electroencephalogram during psychomotor performance p0209 A79-38820
- SAKAGUCHI, E. Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118
- SAKAGUCHI, T. Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118
- SAKURAI, I. Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118
- Measurements of pilot workload during low altitude and high speed maneuvers of F-1 supersonic jet fighter p0134 A79-27118
- SALDIVAR, J. T. Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [FAA-AM-78-40] p0144 N79-18581
- SALIOU, P. A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures p0104 A79-23958

PERSONAL AUTHOR INDEX

SAVINA, V. P.

- SALLES-CUNHA, S. I. D.**
Noninvasive techniques in the evaluation of the peripheral circulation p0154 N79-19675
- SALNITSKII, V. P.**
Engineering-psychological study of information imaging systems p0099 A79-21404
- SALTIN, B.**
Phosphorylase a in human skeletal muscle during exercise and electrical stimulation p0067 A79-18962
- SAMAJA, M.**
Oxygen affinity of blood in altitude Sherpas p0268 A79-47854
- SAMARAS, G. M.**
Temperature uniformity in hyperthermal tumor therapy p0018 N79-10730
- SAMARIN, G. I.**
Effect of restricted activity on vestibular function p0312 N79-33802
- SAMEJIMA, F.**
Estimation of the operating characteristics of item response categories, 3: The normal approach method and the Pearson system [AD-A056747] p0145 N79-18587
- SAMM, S.**
Human operators in adversary tracking encounters p0269 A79-48015
- SAMPSON, J. B.**
New inventory for the assessment of symptom occurrence and severity at high altitude p0273 A79-49991
- SANSOMOV, N. M.**
Utilization of the wastes of vital activity [NASA-TM-75410] p0177 N79-21768
- SAMELSON, G. S.**
Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
- SAUNDERLIN, J. C.**
Human factors design criteria for transilluminated displays p0036 A79-13187
- SAUNDERS, A. F.**
The use of artificial signals during SONAR-watch [IZF-1978-25] p0309 N79-32837
- SAUNDERS, M. G.**
Visual workload of the copilot/navigator during terrain flight p0038 A79-13206
- Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter p0063 A79-18215
- Visual workload of the copilot/navigator during terrain flight p0209 A79-38364
- An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- SANDIE, W. S.**
Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631
- SANDLER, H.**
Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
- Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study [NASA-SP-430] p0054 N79-13686
- SANMARCO, M. E.**
Computer quantitation of coronary angiograms p0293 A79-51030
- SANO, S.**
Prebiotic synthesis of amino acids by carboxylation of amines in oxidative atmosphere p0203 A79-37937
- SANT, J. S.**
Ensuring medical fitness on entry and during service in aircrew in IAF p0182 A79-33187
- SANTAMARIA, L. J.**
Protective approaches in the moderation of the physiological effects of extreme ambient conditions in helicopter operations p0149 N79-19618
- SANTODONATO, J.**
Health effects associated with diesel exhaust emissions, literature review and evaluation [PB-289817/9] p0171 N79-20727
- SANTUCCI, G.**
Recognition by the human eye of colored symbols on different backgrounds p0136 A79-27673
- SANTUCCI, G. F.**
Visual acuity with regard to simultaneous colored contrast on a television screen - Results Providing an eye separator on a color cathode tube p0103 A79-23952 p0152 N79-19639
- SAPP, J. H.**
Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- SAPP, W.**
Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- SARASO, I. G.**
Life stress, organizational stress, and job satisfaction [AD-A055153] p0057 N79-13706
- SARKISYAN, A. P.**
Effects of laser radiation on morphology of peripheral blood and bone marrow under experimental and clinical conditions p0071 N79-14710
- SAROL, Z.**
Medicobiological research within the framework of the scientific program 'Intercosmos' p0181 A79-32658
- SARRAILHE, S. R.**
Impact tests on crash helmets for motor cyclists [AD-A065966] p0197 N79-24655
- SAUER, R. L.**
Food packages for Space Shuttle [ASME PAPER 78-ENAS-13] p0007 A79-12562
Microbial Check Valve for Shuttle [ASME PAPER 78-ENAS-27] p0008 A79-12576
Food and waste management biotechnology for the space shuttle [IAP PAPER 79-93] p0302 A79-53294
- SAVAGE, R. E.**
Models for automated motor skills training p0035 A79-13182
Cross-validation of regression equations to predict performance in a pursuit tracking task p0064 A79-18222
- SAVELEV, I. A.**
Biomechanical properties of muscles and the efficiency of movement p0276 A79-50652
- SAVIK, L. P.**
Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- SAVILOV, A. A.**
Effects of hyperhydration on human endurance of orthostatic and LBNP tests p0072 N79-14721
Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- SAVIN, B. M.**
Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- SAVIN, W. M.**
Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation p0067 A79-18965
Effects of ozone inhalation on work performance and maximal oxygen uptake p0133 A79-27103
- SAVINA, V. P.**
Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft

SAVINA, Y. A.	p0072 N79-14720	Pilot-optimal augmentation synthesis	p0088 N79-15603
Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite	p0108 N79-16517	Telemetry of intracranial pressure	p0227 A79-41400
SAVOSTIN-ASLING, I.	p0022 N79-11667	Noninvasive cardiovascular measurements	p0293 A79-51026
Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment	p0175 N79-21746	Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses	p0266 A79-47330
SAVOV, A.	p0204 A79-37945	SCHMIDT, E. U.	Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods
Liquid crystal developments for medicine	p0041 A79-13612	SCHMIDT, H.	Balance training of the equilibrium organ and its effect on flight strategy
SAWAJ, B.	p0233 A79-42932	SCHMIER, E. R.	Methodological and operational aspects of programmed environment research [AD-A068587]
Prebiotic condensation of oligonucleotide	p0300 A79-52691	SCHNECK, D. J.	Aerodynamic forces exerted on an articulated human body subjected to windblast [AD-A059023]
SAXENA, S. C.	p0037 A79-13199	SCHNEIDER, M. F.	Studies of limb-dislodging forces acting on an ejection seat occupant [AD-A064882]
Heat transfer and temperature distribution in the human body	p0037 A79-13203	SCHNEIDER, R. C.	Bimodal relationship of human tremor and shivering on introduction to cold exposure
SAXENA, V. P.	p0037 A79-10742	SCHOPFIELD, D.	Ruptured arteriovenous anomaly in a former woman astronaut candidate
Application of similarity transformation to unsteady state heat migration problems in human skin and subcutaneous tissues	p0019 N79-10742	SCHORI, C. H.	MM/1, a man - machine interface: A contribution towards a standard [NPL-CSU-2/78]
SCACCHI, W.	p0111 N79-16541	SCHORI, T. R.	The influence of rapid prism adaptation upon fixation disparity
Visual motion perception by intelligent systems	p0019 N79-10742	SCHREIBER, P.	A real-world assessment of noise exposure [AD-A061692]
SCANLON, L. A.	p0033 N79-11745	SCHROEDER, D. J.	Protection against laser beams
Contrast enhancement using local area brightness and gain control	p0019 N79-10742	SCHREIBER, R. J.	Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery [AD-A069375]
Target acquisition in realistic terrain	p0019 N79-10742	SCHROEDER, T.	Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery [AD-A069375]
A behavioral model of target acquisition in realistic terrain	p0142 N79-18566	SCHROETER, K.	Human engineering study of information processing applicable to helmet-mounted displays
[AD-A056760]	p0142 N79-18566	SCHUBERT, E.	Influence of light adaptation on dark adaptation time for pattern recognition tasks [FB-31]
SCHAFFER, H. J.	p0142 N79-18566	SCHUBERT, P. H.	Technology advancement of an oxygen generation subsystem [NASA-CR-152257]
Personnel neutron monitoring in space [NASA-CR-151865]	p0142 N79-18566	SCHUBERT, R. C.	Electrochemically regenerable carbon dioxide absorber [NASA-CR-152099]
SCHAFFER, R. W.	p0142 N79-18566	SCHUBERT-KOERS, A.	Aircraft noise and its effect on man: Methods and results of research, consequences for environmental protection
Speech quality measurement [AD-A056272]	p0142 N79-18566	SCHUEMER, R.	Aircraft noise and its effect on man: Methods and
SCHIEBNER, G.	p0142 N79-18566		
The effect of ultrasound on botulin toxin [AD-A059544]	p0142 N79-18566		
SCHELD, H. W.	p0201 N79-11659		
Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104	p0201 N79-11659		
SCHELKOPF, J. D.	p0302 A79-53294		
Food and waste management biotechnology for the space shuttle [IAF PAPER 79-93]	p0302 A79-53294		
SCHERLAG, B. J.	p0130 A79-26073		
The effects of filtering the His-Purkinje system electrocardiogram	p0130 A79-26073		
SCHEUER, J.	p0068 A79-18966		
Effect of exercise on collateral development in dogs with normal coronary arteries	p0068 A79-18966		
SCHEIFFER, A.	p0068 A79-18966		
Quantitative review of human susceptibility to magnetic fields [UCID-17773]	p0068 A79-18966		
SCHIFFLER, R. J.	p0034 N79-11746		
Study of crew task loading on the C-141A aircraft [AD-A057346]	p0034 N79-11746		
SCHEELZER, B.	p0301 A79-53288		
Male and female characteristics in vestibular testing - A step toward the selection of the best participants for space flight [IAF PAPER 79-80]	p0301 A79-53288		
SCHMIDT-WIEDERKEHR, P.	p0142 N79-18566		
Crawford and Lavoisier on the method of development and place of formation of body heat [BLR-RTS-11228]	p0142 N79-18566		
SCHMIDT, D.	p0165 A79-30663		
Saccadic velocity characteristics - Intrinsic variability and fatigue	p0165 A79-30663		
SCHMIDT, D. K.	p0252 A79-45388		
Pilot-optimal augmentation of the air-to-air tracking task [AIAA 79-1747]	p0252 A79-45388		

PERSONAL AUTHOR INDEX

SELIVRA, A. I.

- results of research, consequences for environmental protection p0162 A79-29763
- SCHULTE-WINTROP, H. C.
Backache in UH-1D helicopter crews p0149 N79-19620
- SCHULZE, E.
Aviation-medicine appraisal as part of the fitness regulations in transportation p0129 A79-25373
- SCHUMACHER, W.
Petri nets as a modeling tool for discrete concurrent tasks of the human operator p0088 N79-15600
- SCHUTZ, B. E.
Simple models for the shuttle remote manipulator system [NASA-CR-151881] p0113 N79-16554
- SCHUTZ, R. K.
A prediction model of arm push strength in the transverse plane p0037 A79-13195
- SCHWAN, H. P.
Classical theory of microwave interactions with biological systems p0082 N79-15556
- SCHWANK, J. C. H.
Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
- SCHWARTZ, A.
Effect of physical conditioning on cardiac mitochondrial function p0068 A79-18966
- SCHWARTZ, H.
High 'Q' escape protection p0044 A79-14428
- SCHWARTZ, R. M.
The point mutation process in proteins p0205 A79-37972
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- SCHWARTZ, S. H.
Use of reward-penalty structures in human experimentation p0089 N79-15607
- The effects of alcohol on driver performance in a decision making situation p0092 N79-15629
- A decision model applied to alcohol effects on driver signal light behavior p0092 N79-15630
- SCIARAPPA, D.
Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
- Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
- SCOTT, B. B.
Ruptured arteriovenous anomaly in a former woman astronaut candidate p0128 A79-24640
- SCOTT, C. D.
Emergence of biotechnology [TID-28983] p0211 N79-24626
- SCRIMSHIRE, D. A.
A revised model of gas transport in human lungs p0253 A79-45768
- SCULLY, M. O.
A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles p0294 A79-51038
- SEARS, A. F.
Protective clothing and equipment for firefighters: Current standards and practices [PB-286990/7] p0113 N79-16557
- SEARS, W.
Joint testing of the RAF high altitude protective ensemble p0044 A79-14434
- SEARS, W. J.
Evaluation of the Sierra Engineering Company lightweight helmet [AD-A061799] p0157 N79-19689
- SEAY, D. E.
Simulator Training Requirements and Effectiveness
- Study /STRES/ p0063 A79-18216
- SEBESTA, P.
Wildlife monitoring program plan [NASA-TM-78578] p0190 N79-23626
- SEBESTA, P. D.
Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37] p0008 A79-12584
- SEDOV, A. V.
Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
- Liberation of carbon monoxide by man when working in protective gear p0076 N79-14748
- SEED, W. A.
Techniques of measurement p0247 N79-27850
- SEGAL, S. S.
Effects of glycogen depletion and work load on postexercise O₂ consumption and blood lactate p0277 A79-50903
- SEID-GUSEYNOV, A. A.
Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- SEIDER, H. J.
Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats p0268 A79-47856
- SEIFERT, D. J.
Modeling and analysis using SAINT - A combined discrete/continuous network simulation language p0004 A79-11480
- Combined discrete network-continuous control modeling of man-machine systems p0260 A79-28879
- Combined discrete network: Continuous control modeling of man-machine systems [AD-A071574] p0310 N79-32842
- SAINT: A combined simulation language for modeling man-machine systems p0317 N79-33842
- SEIGNEURIC, A.
Selection of astronaut candidates - Contribution of the exercise ECG and spirography p0047 A79-15489
- Mitral prolapse and acceleration p0103 A79-23951
- Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His p0103 A79-23955
- Pneumothorax and flight personnel p0103 A79-23956
- The application of vectorcardiography to aerospace medicine p0256 A79-46602
- SEITHER, R.
Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- SEKI-CHIBA, S.
Nitrate fermentation in Clostridium perfringens and significance in metabolic evolution p0205 A79-37968
- SEKI, Y.
Sulfate-reducing bacteria and biochemical evolution p0205 A79-37967
- SEKIGUCHI, C.
Frequency analysis of heart rate variability under flight conditions p0202 A79-37713
- SEKULER, R.
Mutual repulsion between moving visual targets p0275 A79-50473
- SELBY, P. H.
Development of recommendations to improve controls operability [PB-284433/0] p0053 N79-12714
- SELF, H. C.
The behavior of observers in detecting unbriefed targets at different aircraft speeds with side-looking radar [AD-A060908] p0085 N79-15586
- SELIVRA, A. I.
The effect of hyperoxia on the oxygen tension of

- blood and cerebral tissue p0208 A79-38146
- SELZER, R. H.
Computer quantitation of coronary angiograms p0293 A79-51030
- SEMPLE, C. A.
Simulator Training Requirements and Effectiveness Study /STRES/ p0063 A79-18216
- SEN GUPTA, J.
Effect of physical training at moderate altitude /1850 m/ on hypoxic tolerance p0235 A79-43210
- SERDIUK, A. M.
Cell mechanisms for the biological effects of electromagnetic fields p0188 A79-35569
- SERDYUK, A. M.
Determination of a generalized output index of a biological experiment after multiple tests p0076 N79-14744
- SEREBOVNIKOV, M. I.
Nystagmographic characterization of responses to rotation of persons with different vestibular-vegetative stability p0188 A79-35122
- SEREDENKO, M. M.
Lung oxygen diffusibility and permeability in dogs of various ages under normal conditions and in cases of acute hypoxic hypoxia p0296 A79-51114
- The effect of the reduction of inspired gas density on external respiration p0296 A79-51115
- SERGEEV, A. A.
Pathophysiology of overloads: Bibliography of Soviet publications p0200 A79-36385
- SERGEYEV, S. A.
Blood lipid changes in hypoxic rats p0074 N79-14731
- SERGIENKO, A. V.
Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma (1-hydroxycorticosteroids) p0311 N79-33798
- SEROVA, L. V.
Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- SERBE, L.
The value of measuring ocular tonus as a test for detecting glaucoma in flight personnel p0104 A79-23959
- SERRUYS, P. W.
Clinical usefulness of radiopaque markers in left ventricular function p0293 A79-51029
- SETH, V. K.
Disability pattern amongst civil aircrew p0182 A79-33192
- SETLIK, I.
Experiment Chlorella 1 on board of Salyut 6 [IAF PAPER 78-53] p0003 A79-11223
- SETTLE, S. J.
Applied analysis of computer simulated decompression profiles p0017 N79-10722
- SEVERIN, G. I.
Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53486
- SEVEROVOSTOKOVA, V. I.
Regional blood supply under hypoxic hypoxia p0097 A79-20652
- SHAEFFER, J.
Hyperthermia as an Antineoplastic Treatment Modality [NASA-CP-2051] p0017 N79-10728
- SHAFER, I.U. G.
The dose rate of cosmic ray radiation received by a biological target in the stratosphere and at altitudes of satellite orbits p0233 A79-42623
- SHAFFSTALL, R. H.
Incapacitation time for +Gz-induced loss of consciousness p0102 A79-23475
- Evaluation of assisted positive-pressure breathing on +Gz tolerance p0266 A79-47336
- SHALIT, B.
Shalit Perceptual Organisation and Reduction Questionnaire (SPORQ): The instrument, design, administration and scoring [FOA-C-55021-H6] p0249 N79-27859
- Shalit Perceptual Organization and Reduction Questionnaire (SPORQ). Report 2: Characteristics and reliability [FOA-C-55031-H6] p0309 N79-32836
- SHANDALA, M. G.
Immunological effects of microwave action p0172 N79-20736
- Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- SHANNON, R. H.
Application of performance model to assess aviator critical incidence p0063 A79-18209
- SHAPIRO, M.
Recurrent training/supernumerary system p0041 A79-13283
- SHAPOSHNIKOV, Y. A.
Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
- SHARAEV, G. A.
Elements of the theory of biological analyzers p0132 A79-26450
- SHARDA, P. C.
Vertebral fractures in Gnat ejections p0201 A79-37134
- SHARMA, J.
Simulation and control of a human temperature regulation system p0041 A79-13613
- SHARMA, R. P.
Responses of high altitude natives to a standard cold test at sea level p0164 A79-30658
- SHARMA, S.
Effect of alcohol and marijuana on eye movements p0101 A79-23469
- SHARP, P. W.
Anthropology in Spacelab - Control and display system in Spacelab [DGLR PAPER 78-151] p0042 A79-14096
- SHARPE, L. T.
Changes in critical duration during dark-adaptation p0304 A79-54252
- SHATUNINA, T. P.
Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
- SHAW, C. G.
Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- SHAW, G.
A critical assessment of the origin of life p0207 A79-37985
- SHAW, J. N.
Multi-PIERRE - A learning robot system p0066 A79-18425
- SHEEDY, J. E.
The perceived direction of the binocular image p0104 A79-24069
- SHEFTER, L. I.
Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- SHELDON, B.
A brief overview of the theory and application of the optimal control model of the human operator p0317 N79-33841
- SHEPELEV, Y. A.
Effect of combination of hypoxia and hypercapnia

- on survival of Japanese quail p0194 N79-23641
 SHEPELEV, I. Y. Prospects of using Japanese quail in biological life support systems p0109 N79-16531
 SHEPPARD, A. Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555
 SHEREMETEVSRAIA, S. K. Regional blood supply under hypoxic hypoxia p0097 A79-20652
 SHERIDAN, T. B. Human/computer control of undersea teleoperators p0089 N79-15612
 A model for dynamic allocation of human attention among multiple tasks p0092 N79-15627
 SHERSTNEVA, I. Y. Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
 SHERWOOD, E. Prebiotic condensation reactions using cyanamide p0203 A79-37932
 SHEVCHEKO, Y. V. Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0194 N79-23641
 SHEVKUN, O. N. Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
 Liberation of carbon monoxide by man when working in protective gear p0076 N79-14748
 SHEYKIN, A. A. Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth p0244 N79-27826
 SHIELDS, M. L., JR. Man-terminal interaction evaluation of computer operating system command and control service concepts p0064 A79-18224
 Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552
 SHIKHODYROV, V. V. Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation p0312 N79-33804
 SHIKIWA, M. I. Microflora of water reclaimed in sealed compartments p0193 N79-23638
 SHIMIZU, M. Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
 Carbon suboxide and the genetic code p0252 A79-44865
 SHIMOYAMA, A. Synthesis of amino acids under primitive earth conditions in the presence of clay p0203 A79-37930
 SHIROV, A. A. Characteristics of vestibular nystagmus in rats p0016 N79-10714
 Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation p0192 N79-23632
 SHIRACHI, D. K. The effect of a visual/motion display mismatch in a single axis compensatory tracking task p0118 N79-17511
 SHIRLEY, R. S. The effect of a visual/motion display mismatch in a single axis compensatory tracking task p0118 N79-17511
 SHISHKIN, S. B. Norepinephrine action on smooth muscle cells of coronary arteries p0208 A79-38149
 SHITSKOVA, A. P. Environment monitoring in the USSR and hygienic practice p0121 N79-17528
 SHMELEV, L. A. Elements of the theory of biological analyzers p0132 A79-26450
 SHOENBERGER, B. W. Intensity judgements of non-sinusoidal vibrations - Support for the ISO weighting method p0010 A79-12868
 Psychophysical assessment of angular vibration - Comparison of vertical and roll vibrations p0234 A79-43206
 SHONYO, C. A. Human work measurement. A bibliography with abstracts [NTIS/PS-78/1197/9] p0081 N79-14781
 SHOSTAK, V. I. Cerebral hemodynamics and visual analyzer function following exposure to bright light p0109 N79-16525
 Restoration of color perception after deadapting flashes p0193 N79-23640
 SHROCK, C. G. Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
 SHTARK, M. B. New principles of automation of biomedical research p0078 N79-14763
 SHUBICH, M. G. Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite p0192 N79-23631
 SHUBIN, V. G. Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
 SHUINOVA, M. I. Evaluation of oxidizability of air in closed areas p0313 N79-33808
 SHULER, M. L. Waste treatment options for use in closed systems [AIAA PAPER 79-1409] p0187 A79-34843
 SHULTZ, R. E. Computer augmented manual control of remote manipulators p0269 A79-48019
 SHULZHENKO, E. B. Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
 Comparison of physiological effects of head-down tilting and immersion on the human body p0298 A79-52279
 SHULZHENKO, Y. B. Cardiac arrhythmia following postimmersion +G sub z accelerations p0015 N79-10710
 SHVARTZ, E. Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
 Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
 SHVETS, V. N. Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
 Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites p0244 N79-27824
 SIAPKARAS, A. Multi-attribute subjective evaluations of manual tracking tasks vs. objective performance of the human operator p0116 N79-17486
 SIDWELL, A. Saccadic eye movements and visual stability p0035 A79-13075
 SIEGEL, A. I. Man-machine reliability - A practical engineering

- tool p0047 A79-15400
- A survey of Applied Psychological Services' models of the human operator p0317 N79-33839
- SIEGEL, B. Z. The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus p0005 A79-12512
- SIEGEL, S. M. The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus p0005 A79-12512
- SIEVERS, A. J. Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611] p0175 N79-21744
- SIEVERTS, H. Mechanics of breathing during graded exercise measured with the bodyplethysmograph p0029 N79-11709
- SIGMAR, E. Eye torsion in response to a tilted visual stimulus p0305 A79-54254
- SILER, K. Response of the rat erythrocyte to ozone exposure p0067 A79-18963
- SILVERBERG, G. D. Telemetry of intracranial pressure p0227 A79-41400
- SILVERMAN, M. P. Relationship between proton motive force and potassium ion transport in Halobacterium halobium envelope vesicles p0227 A79-40775
- Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
- SIMCOX, W. A. Prosthetic EMG control enhancement through the application of man-machine principles p0117 N79-17505
- SIMEONI, M. Plasma aldosterone, renin activity, and cortisol responses to heat exposure in sodium depleted and repleted subjects p0297 A79-52023
- SIMIONESCU, B. C. Porphyrin-like compounds genesis under simulated abiotic conditions p0099 A79-22078
- SIMIONESCU, C. I. Porphyrin-like compounds genesis under simulated abiotic conditions p0099 A79-22078
- SIMMONDS, R. C. Subcutaneous channeling probe [NASA-CASE-ARC-11091-1] p0025 N79-11684
- SIMMONS, R. R. Visual workload of the copilot/navigator during terrain flight p0038 A79-13206
- Methodological considerations of visual workloads of helicopter pilots p0209 A79-38363
- Visual workload of the copilot/navigator during terrain flight p0209 A79-38364
- An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
- Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640
- Aviator visual performance: A comparative study of a helicopter simulator and the UH-1 helicopter p0153 N79-19652
- SIMONELLI, M. S. An investigation of pictorial and symbolic aircraft displays for landing p0063 A79-18211
- SIMONOV, E. V. Psychophysiological forecasting of efficiency p0010 A79-12867
- SIMONOV, Y. Y. Effect of impact accelerations on chemical resistance of rat erythrocytes p0313 N79-33811
- SIMSON, M. B. Temporal relation between onset of cell anoxia and ischemic contractile failure p0300 A79-52895
- SINGH, G. Analysis of climatic data and cockpit thermal conditions at a fighter base in North West India p0201 A79-37135
- SINGH, J. Developmental and hematological responses to low level exposure of carbon monoxide in mice p0048 A79-16099
- Developmental and hematological responses to low level continuous exposure of nitrogen dioxide in mice p0147 N79-19026
- Electrophoresis pattern of serum from mice exposed to different concentrations of sulfur dioxide p0147 N79-19027
- SINGH, M. M. Aerobiotelemetry from a fighter aircraft p0200 A79-37131
- SINGLEY, G. T., III The use of mathematical modeling in crashworthy helicoptr seating systems p0287 N79-31923
- SINYAK, Y. V. Microflora of water reclaimed in sealed compartments p0193 N79-23638
- Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643
- SINYAK, Y. Y. Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
- SIVUK, A. K. Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antiorthostatic hypokinesia p0193 N79-23635
- SKAVENSKI, A. A. Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
- SKOLNIK, M. I. Capabilities of radar as they might relate to entomological studies p0148 N79-19598
- SKRIABIN, M. G. The dose rate of cosmic ray radiation received by a biological target in the stratosphere and at altitudes of satellite orbits p0233 A79-42623
- SLANSKY, S. Contributions of the retina and of the eye optical system to the modulation lowering of the aerial image p0100 A79-22771
- SLAUGHTER, J. W. Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749] p0190 N79-22758
- SLAUGHTER, P. H. Earth orbital teleoperator systems evaluation [NASA-CR-150912] p0112 N79-16552
- SLEDGE, W. H. Psychosocial aspects of syncope and vertigo in aircrew p0027 N79-11701
- SLINEY, D. H. The development of laser exposure limits p0181 A79-32320
- SLOBODKIN, L. B. Closed regenerative life support systems for space travel - Their development poses fundamental questions for ecological science p0228 A79-41702

- SLOBODNIK, B.**
Correlation of head injury with mechanical forces based on helmet damage duplication p0287 N79-31920
- SLOBODNIK, B. A.**
SPH-4 helmet damage and head injury correlation p0127 A79-24633
- SLOWIM, A. D.**
Ecological physiology of animals. I - General ecological physiology and physiology of adaptations p0275 A79-50474
- SHALL, D. W.**
Image processing program completion report [AD-A061597] p0123 N79-17549
- SHARGUM, L. H.**
Microflora of water reclaimed in sealed compartments p0193 N79-23638
- SMETANIN, B. N.**
Mechanism for the regulation of human posture during movements of the foot p0276 A79-50651
- SMILEY, A.**
Vehicle steering control: A model of learning p0089 N79-15606
- SMIRNOVA, L. A.**
Dynamics of the catalase activity of the blood of athletes under the influence of local decompression p0271 A79-49699
- SMIRNOVA, T. M.**
Recovery of hemopoiesis in rats exposed to radiation during space flight p0014 N79-10701
- Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630
- SMIT, J.**
An analysis of helicopter pilot control behaviour and workload during instrument flying tasks [NLR-MP-78003-U] p0124 N79-17553
- An analysis of helicopter pilot control behavior and workload during instrument flying tasks p0150 N79-19630
- SMITH, A. H.**
Tolerance of domestic fowl to high sustained +Gz p0127 A79-24630
- Effects of brief exposure of domestic fowl to very intense acceleration fields p0127 A79-24631
- Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
- SMITH, B. A.**
Pilot performance during flight simulation with peripherally presented visual signals p0063 A79-18213
- Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844
- SMITH, C.**
Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
- SMITH, C. G.**
Contrast sensitivity of the human visual system at one luminance level while adapted to a stimulus at another luminance level [AD-A064370] p0190 N79-22759
- SMITH, D. E.**
An examination of statistical impact acceleration injury prediction models based on -GX accelerator data from subhuman primates [AD-A057276] p0026 N79-11690
- Some Bayesian inference procedures for use in developing an impact acceleration injury prediction model [AD-A067228] p0220 N79-25741
- SMITH, D. M.**
A preliminary toxicological study of silastic 386 foam elastomer: catalyst [LA-7366-MS] p0071 N79-14714
- SMITH, E. B.**
Detection of bubbles in decompression sickness p0041 A79-13573
- SMITH, H. P. R.**
A simulator study of the interaction of pilot workload with errors, vigilance, and decisions [NASA-TM-78482] p0079 N79-14769
- SMITH, J. E.**
Age trends in the cardiovascular dynamics of airmen p0136 A79-27560
- SMITH, K. H.**
Hyperbaric decompression by means of bubble detection [AD-A062441] p0171 N79-20726
- SMITH, P. W.**
Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4] p0051 N79-12698
- SMITH, R. C.**
A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel [AD-A067826] p0281 N79-30933
- SMITH, R. G.**
Portable device for detection of petit mal epilepsy p0254 A79-46226
- SMITH, R. H.**
Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
- SMITH, R. P.**
Hemoglobinemia in rats exposed to high altitude is not due to an overload of catabolic mechanisms p0101 A79-23467
- SMITH, W. L.**
Challenges to life support system's future [ASME PAPER 78-ENAS-28] p0008 A79-12577
- SMOLENSKI, M. H.**
Medical barofunction testing of aviators with otorhinolaryngologic disease p0298 A79-52285
- SMOLICZ, T.**
Man and automation p0275 A79-50372
- SMORENBURG, G. F.**
Effects of acute noise traumata on whole-nerve and single-unit activity [IZP-1978-23] p0308 N79-32829
- Tentative evaluation of annoyance caused by noise from gunfire [IZP-1978-21] p0310 N79-32843
- SMOUGUR, T.**
Joint testing of the RAF high altitude protective ensemble p0044 A79-14434
- SMYLY, H. M.**
Prosthetic urinary sphincter [NASA-CASE-MPS-23717-1] p0077 N79-14756
- SMYTH, C. C.**
Internal cockpit reflections of external point light sources for the model YAH-64 advanced attack helicopter [AD-A056489] p0033 N79-11744
- SNOW, C. K.**
The role of physical examinations and education in prospective medicine p0026 N79-11694
- SOEDE, H.**
Reduced mental capacity and behavior of a rider of a bicycle simulator under alcohol stress or under dual task load p0116 N79-17489
- SOHRAB, S.**
Application of pseudo random binary sequence input to identification of respiratory control dynamics p0268 A79-48011
- SOKOLIK, A. M.**
Devices for synchronizing a digital measuring apparatus with biological signals p0160 A79-29271
- SOKOLOV, Y. A.**
Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- SOKOLOVA, N. A.**
Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma p0017 N79-10721
- SOKOLOVA, Y. A.**
Effects of vibration and noise on some indices of efficiency of MI-4 helicopter crews p0015 N79-10711

- SOLEILHAVOUP, J. P.**
Genetic effects of balloon flight in *Drosophila melanogaster* p0006 A79-12520
- SOLODKOV, F. B.**
Effects of vestibular stimuli on the electrical activity of muscles p0187 A79-35121
- SOLOMIN, G. I.**
Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
- SOLOMON, C. J.**
Effects of low temperature on *in vivo* and *in vitro* protein synthesis in *Escherichia coli* and *Pseudomonas fluorescens* p0131 A79-26141
- SOLOVEV, A. A.**
Nonlinear optical susceptibility of the human eye to IR radiation in the 800 to 1355 micron range p0188 A79-35363
Nonlinear perception of infrared radiation in the 800-1355 nm range with human eye p0301 A79-53163
- SOLOVEV, A. I.**
Possibilities and perspectives of tetrapolar transthoracic impedance rheophethysmography in noninvasive studies of hemo- and cardiodynamics p0296 A79-51118
- SOLOVEVA, I. B.**
On the man's adaptation to the operator's work under stressful conditions of space flight [IAP PAPER 78-A-56] p0003 A79-11345
Psychological training - One of the most important factors of enhancing the safety of space flights [IAP PAPER 79-A-24] p0303 A79-53426
- SOMERS, P.**
The development of integrated multidimensional displays p0187 A79-34990
- SOW, IU. A.**
Investigation of the content of hemoglobin and its fractions in permanent inhabitants of the Tien Shan and Pamir p0188 A79-35124
- SONG, D.**
Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- SONTZ, C.**
Man-machine reliability - A practical engineering tool p0047 A79-15400
- SOSIN, I. I.**
The dose rate of cosmic ray radiation received by a biological target in the stratosphere and at altitudes of satellite orbits p0233 A79-42623
- SOTO, R. J.**
Density dependence of maximum expiratory flow p0050 N79-12691
- SOULARD, C. D.**
Effects of chronic changes in hemoglobin-O₂ affinity in rats p0185 A79-33808
- SOUZA, K. A.**
Characterization of a novel extremely alkalophilic bacterium p0004 A79-11950
Temperature-dependent morphological changes in membranes of *Bacillus stearothermophilus* p0005 A79-12475
The joint US-USSR biological satellite program p0182 A79-33050
- US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525] p0020 N79-11651
US experiments flown on COSMOS 782 p0020 N79-11652
- US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-78526] p0023 N79-11671
The Cosmos 936 mission p0023 N79-11672
- SPADY, A. A., JR.**
Flight management research utilizing an oculometer p0001 A79-10389
Airline pilot scan patterns during simulated ILS approaches [NASA-TP-1250] p0155 N79-19682
- SPALL, M. J.**
The physical appearance of intelligent aliens p0105 A79-24519
- SPANGLER, W. L.**
Tolerance of domestic fowl to high sustained +Gz p0127 A79-24630
Effects of brief exposure of domestic fowl to very intense acceleration fields p0127 A79-24631
Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
- SPARKS, E.**
The effects of the pollutant, sodium cyanide, on the morphology and physiology of *oedogonium cardiacum* p0147 N79-19028
- SPARKS, K. E.**
Exercise ventilation correlates positively with ventilatory chemoresponsiveness p0066 A79-18954
- SPASSKIY, Y. A.**
Energy expenditures of man during long exposure to a periodically changing atmosphere p0312 N79-33799
- SPECKER, L. J.**
Application of biodynamic models to the analysis of F-16 canopy birdstrike p0285 N79-31911
- SPEED, W. C.**
A new noninvasive technique for cardiac pressure measurement. II Scattering from encapsulated bubbles p0294 A79-51038
- SPENCE, J. T.**
Making it in academic psychology: Demographic and personality correlates of eminence [NASA-CR-162287] p0289 N79-31932
- SPERINDE, S. J.**
Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
- SPERLING, D. R.**
An improved method for inducing hypothermia and rewarming p0267 A79-47339
- SPEYER, J. L.**
Human operators in adversary tracking encounters p0269 A79-48015
- SPIES, E.**
Heart rate: Physiological characteristics and quantification methods for use in behavioral studies [CSIR-SR-PERS-276] p0121 N79-17531
- SPIKES, J. D.**
Energy transfer mechanisms in photobiological reactions [COO-875-180] p0283 N79-31898
- SPILLMANN, L.**
The equivalent background and retinal eccentricity p0104 A79-24066
- SPINTIG, J.**
The Spacelab flight unit environmental control/life support system [ASME PAPER 78-ENAS-14] p0007 A79-12563
- SPORROW, A.**
Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-H9] p0124 N79-17556
- SPRAGUE, E. A.**
The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement p0028 N79-11703
- SPRINGER, D. L.**
Metabolism of hydrazine [AD-A062251] p0169 N79-20716
- STABEKIS, P.**
Planetary protection guidelines for Outer Planet missions p0005 A79-12511
- STAHL, F. I.**
Human responses to fire: Three designs for research [PB-284959/4] p0058 N79-13708

PERSONAL AUTHOR INDEX

STOLL, A. H.

- STAMHOVIC, B.
Biomagnetism and artificial magnetic stimulation
of living structures
[IAF PAPER 78-52] p0002 A79-11222
- STAHM, G. H.
Eye movements and symmetry - Foundations for a
quantitative analysis of eye movements as they
depend on the structure of the perception field
p0098 A79-20756
- STAMPER, D. A.
Honest 1: Personality, heart rate, urinary
catecholamine, and subjective fatigue measures
related to night nap-of-the-earth flying
[AD-A054888] p0055 N79-13692
- STAMPFL, P.
Thoughts about man-machine interrelations in space
flights applied to Spacelab missions
[IAF PAPER 79-95] p0302 A79-53295
- STANEK, K. A.
Metabolic responses of ponies to treadmill
exercise in hyperoxia p0049 N79-12681
- STAPLEFORD, R. L.
Piloted aircraft simulation - Advantages,
disadvantages, and practical problems
[SAB PAPER 780548] p0001 A79-10407
- STARKE, L.
The trajectories of saccadic eye movements
p0065 A79-18250
- Omni directional increase in threshold for image
shifts during saccadic eye movements
p0139 A79-28198
- STAARR, G. P.
A comparison of control modes for time-delayed
remote manipulation p0163 A79-30223
- STASZ, C.
Individual differences in knowledge acquisition
from maps
[AD-A065040] p0196 N79-23663
- STAUFFER, R. M.
Physiological effects of a military training
program on males and females
[AD-A062936] p0220 N79-25744
- STAVE, A. H.
The influence of low frequency vibration on pilot
performance /as measured in a fixed base
simulator/ p0299 A79-52326
- STAYTON, L.
Hyperbaric decompression by means of bubble
detection
[AD-A062441] p0171 N79-20726
- STAZHADZE, L. L.
The adrenosympathetic system in the presence of
traumatic shock during simulation of effects of
weightlessness on the human body p0192 N79-23633
- STEER, R.
Communications management by the remote system -
An adaptive approach p0041 A79-13226
- Adaptive estimation of information values in
continuous decision making and control of
advanced aircraft
[AD-A069741] p0282 N79-30941
- STEEL-PERKINS, A. P.
Disorientation in Royal Naval helicopter pilots
p0152 N79-19648
- STEENBERGEN, C.
Oxygen delivery in the hypoxic perfused heart:
Relation to functional and metabolic changes
p0307 N79-32825
- STEIN, A. C.
Use of reward-penalty structures in human
experimentation p0089 N79-15607
- The effects of alcohol on driver performance in a
decision making situation p0092 N79-15629
- STEIN, I. H.
The effect of active area on the legibility of dot
matrix displays
[AD-A058014] p0052 N79-12708
- STEIN, W.
The man-computer division of tasks in the case of
the control of complex technical systems
p0061 A79-17683
- The human operator in the control system: Linear
models p0132 A79-26356
- STEINBACH, K. H.
Cell biology basis for the life of an organism in
the radiation field
[ANL-TRANS-1152] p0261 N79-29786
- STEINHAN, R. H.
The effect of expectations on slow oculomotor
control. I - Periodic target steps. II - Single
target displacements p0225 A79-40185
- Quality of retinal image stabilization during
small natural and artificial body rotations in man
p0225 A79-40187
- STELINGOVSKIY, K. V.
Compensatory reactions of the kidneys to
orthostatic factors p0015 N79-10708
- STELMAKH, M. P.
Nonlinear optical susceptibility of the human eye
to IR radiation in the 800 to 1355 micron range
p0188 A79-35363
- Nonlinear perception of infrared radiation in the
800-1355 nm range with human eye
p0301 A79-53163
- STENGEL, R. F.
Prediction of pilot-aircraft stability boundaries
and performance contours p0118 N79-17507
- STEPANOVA, S. I.
Stability of circadian system of the body
p0073 N79-14723
- STEPANISOV, V. I.
Possibilities of preventing adverse reactions in
simulating the acute period of adaptation to
weightlessness p0244 N79-27825
- STERN, D. H.
Citric acid enhancement of copper sulfate toxicity
to blue-green algae and other nuisance organisms
[PB-289490/5] p0170 N79-20718
- STERN, E. S.
Citric acid enhancement of copper sulfate toxicity
to blue-green algae and other nuisance organisms
[PB-289490/5] p0170 N79-20718
- STERN, R.
Effect of ultrasonic irradiation on mammalian
cells and chromosomes in vitro p0134 A79-27239
- STEUCK, M. J.
Evaluation of fluoropolymer membranes in oxygenators
[PB-286698/6] p0112 N79-16547
- STEWARD, P. C.
The morphogenetic responses of cultured totipotent
cells of carrot (*Daucus carota* L.) at zero gravity
p0021 N79-11657
- STEWART, G. K.
A Canadian approach to high altitude protection
p0045 A79-14435
- STICKLAND, A. C.
Life sciences and space research XVI: Proceedings
of the Open Meetings of the Working Group on
Space Biology, Tel Aviv, Israel, June 7-18, 1977
p0005 A79-12508
- STINNER, R. E.
The role of insect dispersal and migration in
population processes p0147 N79-19593
- STOCK, B.
Clozapine metabolism in humans
[BLL-RTS-10902] p0142 N79-18567
- STOCK, M. F.
Renal damage in mice following exposure to the
pyrolysis products of polytetrafluoroethylene
p0066 A79-18306
- STOCKWELL, C. W.
Biped stability considerations with vestibular
models p0066 A79-18287
- STOKES, J. W.
Sustained operations and sleep deprivation -
Effects on indices of stress p0009 A79-12859
- Construction in space - Toward a fresh definition
of the man/machine relation p0187 A79-34985
- STOLL, A. H.
Heat transfer principles in personal protection

applications		
Thermal conduction effects in human skin	p0043 A79-14405	
Thermal conduction effects in human skin	p0265 A79-47329	
Experimental data acquisition [AD-A068479]	p0259 N79-28871	
Thermal conduction effects in human skin. 1: Influence of epidermal thickness and exposure time [AD-A068481]	p0259 N79-28872	
STONE, L. W. The assessment of rotary wing aviator precision performance during extended helicopter flights	p0040 A79-13221	
Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter	p0063 A79-18215	
Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward hover maneuver as a function of extended flight requirements and aviator fatigue	p0150 N79-19623	
STORK, R. L. Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248]	p0053 N79-12710	
Evaluation of the Sierra Engineering Company lightweight helmet [AD-A061799]	p0157 N79-19689	
STORM, W. F. Minuteman missile crew fatigue and 24-hour alerts [AD-A056561]	p0056 N79-13696	
STOROZHENKO, I. N. The role of computer technology mathematical models in treatment of patients following heart surgery	p0170 N79-20721	
STOUTT, H. W. Arm-leg reach and workspace layout	p0033 N79-11739	
STOWELL, H. R. A photometric and legibility assessment of Aerospace Optics, Incorporated Vivisun 20/20 display [AD-A067668]	p0242 N79-26786	
STRASHIMIROV, D. On the latency of human visually evoked response to sinusoidal gratings	p0232 A79-42236	
STRASSER, H. Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971]	p0080 N79-14774	
STRAUB, K. D. Molecular absorption of non-ionizing radiation in biological systems	p0082 N79-15553	
STRAZHIZHOVSKIY, A. D. Effect of infra-low-frequency magnetic fields on cell division	p0173 N79-20739	
STRIBBLEY, R. P. Physiological requirements for design of environmental control systems - Control of heat stress in high-performance aircraft [ASME PAPER 78-ENAS-22]	p0007 A79-12571	
Fighter index of thermal stress /FITS/ - guidance for hot-weather aircraft operations	p0202 A79-37715	
Effect of cockpit temperature gradients on the validity of single-point measurements	p0234 A79-43203	
Tracking-task performance during heat stress simulating cockpit conditions in high-performance aircraft	p0236 A79-43675	
Heat and acute dehydration effects on acceleration response	p0237 A79-43705	
Fighter index of thermal stress: Development of interim guidance for hot-weather USAF operations [AD-A053471]	p0056 N79-13699	
Fighter index of thermal stress: Relation to weather conditions at ATC and TAC bases [AD-A062713]	p0174 N79-20748	
STRIEB, M. I. Visual performance modeling in the human operator		
simulator		
STRINGER, F. S. Optimisation of pilot capability and avionic system design [AGARD-AR-118]	p0113 N79-16560	
STROM, J. A. Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749]	p0190 N79-22758	
STROEMER, C. F., III Apparent saturation of blue-sensitive cones occurs at a color-opponent stage	p0002 A79-10474	
Direction-selective adaptation with very slow motion	p0265 N79-47118	
STROMME, S. B. Pulmonary blood volume and interventricular circulation time in physically trained and untrained subjects	p0128 A79-24700	
STROMZA, B. V. The influence of intermittent aircraft noise on sleep. I	p0255 A79-46599	
STUCK, B. E. Extrapolation of pulsed light data in scanned displays	p0138 A79-28170	
STUPAKOV, G. P. Changes in properties of rat femur as a result of crural exarticulation and hypokinesia	p0108 N79-16522	
Significance of the vibration component to the deleterious effect of impact accelerations	p0312 N79-33801	
STYKAN, O. A. Paroxysmal disorders of consciousness due to flight factors	p0161 A79-29300	
SUDAKOV, A. I. Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads	p0160 A79-29270	
SUDOH, H. Development of adaptation to hypodynamics on rat and its readaptability to ambulatory life [IAF PAPER 79-76]	p0301 A79-53285	
SUIRIDKINA, L. P. Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia	p0313 N79-33813	
SULLIVAN, M. J. Dynamic measurement of human cyclofusional eye movements	p0142 N79-18575	
SUMMERS, W. C. An algorithm to ascertain critical regions of human tracking ability	p0163 A79-30218	
SUN, P. S. Helicopter commands at the touch of a hand [AHS 79-13]	p0270 A79-49066	
SUN, S. T. Study of model membrane fusion using photon correlation spectroscopy	p0147 N79-19591	
SURI, K. B. Motion sickness in cats - A symptom rating scale used in laboratory and flight tests	p0202 A79-37711	
SUROVTSIEV, N. A. Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body	p0073 N79-14725	
Liberation of carbon monoxide by man when working in protective gear	p0076 N79-14748	
SUSLOVA, O. B. Adaptive optimization of exchange of gases in plants in a sealed phytotron	p0313 N79-33806	
SUSSMAN, E. D. Effects of deceleration and rate of deceleration on live seated human subjects [PB-284653/3]	p0057 N79-13702	

- SUTTON, J.**
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression
p0185 A79-33806
- SUZUKI, S.**
Temporary threshold shift from transportation noise
p0254 A79-46286
- SUZUKI, T.**
Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna
p0136 A79-27959
- SUZUKI, Y.**
Mechanical efficiency of fast- and slow-twitch muscle fibers in man during cycling
p0268 A79-47852
- SVERDLINEVA, N. T.**
Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation
p0015 N79-10709
- SVIRIZHEV, Y. M.**
Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method
p0015 N79-10707
- SVIRIDKINA, L. P.**
State of blood clotting during prolonged hypokinesia
p0073 N79-14729
- SWARTZLANDER, E. E., JR.**
High-speed computerized tomography
p0004 A79-12030
- SYCHEV, B. S.**
Atlas of the dose characteristics of external ionizing radiation /Handbook/
p0098 A79-20669
- SYLVESTER, J. T.**
Evidence for increased intrathoracic fluid volume in man at high altitude
p0305 A79-54266
- Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333]
p0220 N79-25743
- SYLVESTER, S. H.**
Stress management: A comparison of educational, aerobic and autosuggestive approaches
p0260 N79-28875
- SYVERTSON, C. A.**
Aerospace highlights and potential medical applications
p0293 A79-51027
- SZABO, N. S.**
Digital image anomalies - Static and dynamic
p0137 A79-28158
- SZCZEPANSKI, A.**
Guidelines for designing machines and devices for acoustic vibrations from the point of view of the physiological and psychological properties of the human organism
p0236 A79-43608
- SZENDE, K.**
Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms [NBC/CNR-TT-1924]
p0120 N79-17521
- T**
- TABOADA, J.**
Suprathreshold retinal damage due to single 6 picosecond 1060 nm laser light pulses
p0266 A79-47330
- TADEBUSIEWICZ, R.**
Attempt to describe a class of man-machine dialogue systems based on a natural language
p0251 A79-44057
- TAIRBEKOV, M.**
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582]
p0071 N79-14711
- TAIRBEKOV, M. G.**
Biological experiments carried out aboard the biological satellite Cosmos-936
p0230 A79-41717
- TAKANO, N.**
Acid-base curve nomogram for chimpanzee blood and comparison with human blood characteristics
p0133 A79-27105
- TAKATA, K.**
Simulation study on time series of heart responses
p0037 A79-13197
- TALBOT, L.**
A fluid-mechanical study of the closure of heart valves
p0161 A79-29540
- TAM, W. M.**
An extension of the quickened display for manual control
p0086 N79-15591
- TAMURA, S.**
A binocular stereoscopic display system for echocardiography
p0130 A79-26072
- TANAKA, K.**
On the relationship between pilot rating and pilot dynamics. I - An experimental approach
p0066 A79-18474
- A binocular stereoscopic display system for echocardiography
p0130 A79-26072
- A study of the effect of forcing function characteristics on human operator dynamics in manual control
p0086 N79-15590
- Motion cue effects on human pilot dynamics in manual control
p0119 N79-17514
- TANAKA, M.**
Simulation study on time series of heart responses
p0037 A79-13197
- TANEEVA, G. V.**
Dynamics of the catalase activity of the blood of athletes under the influence of local decompression
p0271 A79-49699
- TANSLEY, B. W.**
Chromatic border distinctness - Not an index of hue or saturation differences
p0139 A79-28332
- TAPLEY, B. D.**
Simple models for the shuttle remote manipulator system [NASA-CR-151881]
p0113 N79-16554
- TAPPET, A. L.**
Effects of exercise, vitamin E, and ozone on pulmonary function and lipid peroxidation
p0067 A79-18965
- TARANENKO, Y. N.**
Vertical orientation of man during 5-day antiorthostatic hypokinesia (-4, -8 and -12 deg head down position)
p0313 N79-33810
- TARG, R.**
Development of techniques to enhance man/machine communication [NASA-CR-157886]
p0032 N79-11730
- TARSHIS, A. M.**
Contribution of rib cage and abdomen-diaphragm to tidal volume during CO₂ rebreathing
p0185 A79-33805
- TASHPULATOV, R. I.**
Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5
p0107 N79-16515
- Studies of microbial flora and immunity of Salyut-3 crew
p0192 N79-23629
- Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station
p0244 N79-27820
- TATARINOVA, N. V.**
Hemodynamic indices under orthostatic and vestibular effects
p0098 A79-20692
- TATEHO, Y.**
Goodman et al.'s method for augmenting the number of nucleotide substitutions
p0253 A79-45639
- Augmentation algorithm - A reply to Holmquist
p0253 A79-45644
- TAYLOR, D. M.**
Microbiological evaluation of the mobile biological isolator system [NASA-CR-162293]
p0307 N79-32822

TAYLOR, G. R.		TEPPER, M. L.
Microflora analysis of a child with severe combined immune deficiency	p0004 A79-11900	Between incident and accident
TAYLOR, J. T.		TER-POGOSSIAN, M. M.
Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822]	p0283 N79-31897	Computerized positron emission tomography /PET/ for the assessment of myocardial integrity
TAYLOR, L. S.		TERRY, S. C.
The Physical Basis of Electromagnetic Interactions with Biological Systems [HEW-PUB-FDA-78-8055]	p0081 N79-15551	A study of noninvasive blood pressure measurement techniques
TAYLOR, R. H.		TESAR, D.
The psychologist in aircraft accident investigation	p0291 N79-31946	Computer augmented manual control of remote manipulators
Geographical disorientation and flight safety	p0291 N79-31951	TESKY, W. J.
TAYLOR, T. I.		Nonshivering thermogenesis in normal and dystrophic muscle
Metabolic rate meter and method [NASA-CASE-MSC-12239-1]	p0175 N79-21750	TETEFORT, A.
TAYLOR, W. D.		Mechanism of the formation of phosphenes by X-rays
Distribution of phytoplankton in Arkansas lakes [PB-292742/4]	p0240 N79-26768	THACKRAY, R. I.
TAYLOR, W. S.		The effect of increased monitoring load on vigilance performance using a simulated radar display
Distribution of phytoplankton in North Carolina lakes [PB-286387/6]	p0084 N79-15573	THEIS, C. F.
TAYS, M.		Visual search performance during simulated radar observation with and without a sweepline [AD-A068020]
Joint testing of the RAE high altitude protective ensemble	p0044 A79-14434	THEVES, B.
TAYS, M. A.		Human compatibility testing of a 2-man molecular sieve oxygen generator [AD-A058248]
An assessment of the RAE Type 'B' full pressure suit automatic head enclosure	p0044 A79-14432	THOMAS, D. J.
TEBBETTS, I.		The local and time-dependent temperature field in the body of a homeothermic organism in case of sudden changes of quantity and local distribution of internal heat production
Anthropometric source book. Volume 1: Anthropometry for designers [NASA-RP-1024]	p0032 N79-11734	THOMAS, D. J.
Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment [AD-A065901]	p0197 N79-23668	Medical qualification procedures for hazardous-duty aeromedical research
Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600]	p0290 N79-31939	Multiaxis dynamic response of the human head and neck to impact acceleration
TEICHNER, W. H.		Transient intraventricular conduction defects observed during experimental impact in human subjects
Visual search for complex targets	p0208 A79-38357	THOMAS, E. B.
TEISSEIRE, B. P.		The distribution of cadmium and other metals in human tissues
Effects of chronic changes in hemoglobin-O2 affinity in rats	p0185 A79-33808	[PB-285200/2]
TEIXEIRA, R. A.		THOMAS, E. G.
Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements	p0135 A79-27558	A preliminary toxicological study of silastic 386 foam elastomer: catalyst
TELL, E. B.		[LA-7366-MS]
Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38]	p0009 A79-12585	THOMPSON, C. D.
TELL, R. A.		Extended duration Orbiter life support definition [ASME PAPER 78-ENAS-42]
Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/8]	N79-25750	Test evaluation of space station ECLSS maintenance concepts
Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4]	p0241 N79-26779	[ASME PAPER 78-ENAS-43]
TEMPLETON, T. K.		THOMPSON, D. A.
Compensation for transport delays produced by computer image generation systems [AD-A056720]	p0019 N79-10738	The development of a six degree-of-constraint robot performance evaluation test
TENHOOR, P.		p0117 N79-17504
Influences of dietary fats on coronary flow rate and left ventricular work of the isolated rat heart	p0239 N79-26766	THOMPSON, L. C.
Effects of dietary fats on the coronary flow rate and the left ventricular function of the isolated rat heart	p0239 N79-26767	Compensation for transport delays produced by computer image generation systems
Aspects of dietary prevention of arteriosclerosis	p0262 N79-29792	[AD-A056720]
TEROSO, H. J.		p0019 N79-10738
Water system virus detection [NASA-CASE-MSC-16098-1]	p0013 N79-10693	THOMPSON, R. W.
		Engineering test and evaluation during high G. Volume 3: Anti-G suits
		[AD-A059122]
		Engineering test and evaluation during high G. Volume 2: Anti-G valves
		[AD-A059521]
		p0052 N79-12706
		THORNDIKE, P. W.
		Individual differences in knowledge acquisition from maps
		[AD-A065040]
		p0081 N79-14780
		THORNTON, W.
		Anthropometric changes in weightlessness
		p0032 N79-11735
		THUEMLER, R.
		A model for vestibular function in altered

- gravitational states p0229 A79-41710
- TICKNER, E. G.
Noninvasive assessment of pulmonary hypertension using bubble ultrasonic ringing (BURP) method, part 2 [PB-283935/51] p0051 N79-12699
- TIETZ, J. D.
A comparison of oculomotor and motion parallax cues of egocentric distance p0305 A79-54253
- TIFFANY, P. B.
Discrimination of density and clustering on four versions of a stochastic display p0036 A79-13192
- TIGRANIAN, R. A.
Some neurochemical characteristics of rats after space flight in the Cosmos-936 satellite p0299 A79-52475
- TIGRANYAN, R. A.
Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite p0014 N79-10702
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- Effects of space flight factors on electrolyte composition of rat skeletal muscles p0109 N79-16530
- Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Kosmos-690 biosatellite p0311 N79-33795
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- TIKHONCHUK, V. S.
The time parameter in exposures to microwave radiation p0105 A79-24419
- Effect of microwave radiation on the resistance of rats to transverse acceleration loading p0275 A79-50496
- Time parameter in microwave irradiation p0277 A79-50694
- TIKHOLOVA, G. P.
Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
- TILLERY, J. B.
The distribution of cadmium and other metals in human tissues [PB-285200/2] p0057 N79-13703
- TILTON, R. B.
ISAAC-1 - A color sensing robot p0138 A79-28168
- TIMBAL, J.
Relations between research and instruction in physiology and aerospace ergonomics in the military health services p0104 A79-23960
- TIMBERLAKE, G. T.
Laser Doppler technique for measurement of eye movement p0233 A79-42450
- TIMOFEYEV, A. V.
Robots and artificial intelligence p0061 A79-17569
- TIMOFEYEV-RESOLSKIY, N. V.
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
- TINDELE, J. R.
Effects on A-6E bombardier/navigator flight training with the introduction of device 2F114, A-6E weapon system trainer [AD-A068607] p0289 N79-31933
- TIIXADOR, R.
Preliminary results of Cyotos experiment flows in Salyut VI - Investigations of Paramechin aurelia p0229 A79-41709
- TIEULIN, S. ZH.
The effect of thermal stimulation of the skin on activity of lateral crescent interneurons of lumbar segments p0208 A79-38147
- TOLE, J. R.
A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples p0160 A79-28993
- TOLTZIS, H.
A spherical representation of a human body for visualizing movement p0301 A79-53096
- TOMASHEVSKAYA, L. A.
Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field p0074 N79-14737
- TOHIZUKA, H.
An extension of the quickened display for manual control p0086 N79-15591
- TOHOTSUKA, H.
The origin of the protein synthesis mechanism p0207 A79-37986
- TOPHILLER, D. A.
Computer-graphic design for human performance [AD-A055132] p0046 A79-15399
- TORBATTI, D.
Capillary fragility during air exposure of man to 1-5 ATA and after decompression p0010 A79-12863
- Organ blood flow, cardiac output, arterial blood pressure, and vascular resistance in rats exposed to various oxygen pressures p0135 A79-27557
- TORDA, T.
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- TORNABENE, T. G.
Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
- TOUCHSTONE, R. H.
The effect of increased monitoring load on vigilance performance using a simulated radar display p0236 A79-43674
- Visual search performance during simulated radar observation with and without a sweepline [AD-A068020] p0281 N79-30938
- TOUPANCE, G.
Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
- TOUTPET, M.
The responses of frogs to vestibular and visual stimulation in weightlessness p0006 A79-12513
- TOWE, B. C.
X-ray backscatter imaging p0176 N79-21754
- TOWLE, V. L.
Objective determination of human visual acuity from the visual evoked potential p0228 A79-41423
- TOWNSEND, T. H.
Effects of phase manipulation on speech intelligibility through communication headsets p0164 A79-30654
- TRATZ, W. M.
Microbiological evaluation of the mobile biological isolator system [NASA-CR-162293] p0307 N79-32822
- TRAYBAR, J. J.
Workload and the certification of helicopters for IFR operation [AD-A072758] p0318 N79-33850
- TREANOR, J. J.
The helmet protects the aviator's head - Or does it p0044 A79-14429

- TREMOR, J. W.**
Effects of hypodynamic simulations on the skeletal system of monkeys p0146 N79-19021
- TRENT, C. C.**
A lower body negative pressure box for +Gz simulation in the upright seated position [AD-A069326] p0259 N79-28868
- TRETYACHENKO, V. V.**
New combined aspirator for sampling developed p0170 N79-20722
- TRIEBWASSER, J. H.**
Relaxed +G tolerance in healthy men - Effect of age p0067 A79-18956
- Prospective Medicine Opportunities in Aerospace Medicine. [AGARD-CP-231] p0026 N79-11692
- Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen p0027 N79-11699
- The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement p0028 N79-11703
- Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
- Effect of age on relaxed +G sub z tolerance of aircrewmen p0030 N79-11719
- Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720
- Prospective medicine opportunities in aerospace medicine p0171 N79-20730
- TRIPP, J.**
Non-invasive information on the P-R segment of the cardiac cycle - An assessment of the clinical potential of the electric and magnetic methods p0295 A79-51045
- TRIPP, J. H.**
The theory of the magnetocardiogram p0304 A79-53533
- TROI, V.**
Computed axial tomography (CAT) [ISS-R-78/4] p0262 N79-29791
- TROITSKAIA, E. M.**
3'5'-cyclic AMP content in rat tissues during hypoxic adaptation and gamma irradiation p0069 A79-19426
- TROITSKAIA, N. A.**
Some forms of adaptation to extreme influences in the blood system p0256 A79-46679
- TROLLIP, S. R.**
A computer-based simulator simulator p0039 A79-13215
- The evaluation of a complex computer-based flight procedures trainer p0161 A79-29717
- TROOST, B. T.**
Linearization and sensitivity analysis of model for human eye movements p0102 A79-23783
- TROSHIKHIN, G. V.**
Tissular respiration of the brain after exposure of rats to hypertoxic helium and oxygen mixtures at atmospheric and elevated pressure p0015 N79-10712
- Toxicity of oxygen mixed with helium p0245 N79-27829
- TROSHIN, A. Z.**
Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system p0245 N79-27831
- TROXLER, R. G.**
The prediction of the existence or nonexistence of coronary artery disease using routine clinical laboratory measurement p0028 N79-11703
- TRUBACHEV, I. N.**
Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems p0246 N79-27834
- TRUSCH, R. B.**
A thermoelectric integrated membrane evaporation system [ASME PAPER 78-ENAS-19] p0007 A79-12568
- TRUSHINSKIY, Z. K.**
Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
- TRUSWELL, P.**
Prediction of body temperatures during exercise in flying clothing p0273 A79-49989
- TSIVINA, T. A.**
Model of human heat exchange and identification of its parameters Physiological studies and mathematical modeling p0159 A79-28739
- TSVETKOV, A. A.**
Studies of venous circulation in the crew of the Salut-5 orbital station p0310 N79-33791
- TSYBENKO, V. A.**
Interaction between hypothalamic and bulbar levels of regulating blood circulation p0098 A79-21242
- TULEBEKOV, B. T.**
Immunophysiological aspects of man's adaptation to highland p0188 A79-35123
- TULGA, S. K.**
A model for dynamic allocation of human attention among multiple tasks p0092 N79-15627
- TULUNAY-KEESEY, U.**
Effects of stimulus onset and image motion on contrast sensitivity p0231 A79-42231
- TURKINA, N. V.**
Training of visual recognition p0160 A79-29250
- Training effect of recognition of different alphabets of visual stimuli p0175 N79-21747
- TURNBILL, C.**
Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- TURNBILL, C. E.**
Effects of weightlessness on the embryonic development and aging of Drosophila p0022 N79-11670
- TURNER, R. T.**
Quantitative analysis of selected bone parameters p0023 N79-11676
- TURRY, V. W.**
Some variations on derivations by Primoff and their extensions [PB-287298/4] p0112 N79-16548
- TYLER, C. W.**
Hyper-resolution in human perception of movement in visual displays p0132 A79-26240
- TYLER, P. E.**
Relationship between thermogenic drinking and plasma renin activity in the rat p0235 A79-43211
- TYNDALL, L. H.**
Analysis of naval aviation head and neck injuries (1969-1978) [AD-A057657] p0026 N79-11689
- TYURINA, E. V.**
Compensatory reactions of the kidneys to orthostatic factors p0015 N79-10708
- U**
- UDDGARD, A.**
Biologically active short-chain peptides [FOA-C-40063-C1] p0261 N79-29785
- UDINTSEV, B. A.**
Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue

- UDUPA, K. J.
Homomorphic analysis and modeling of ECG signals
p0075 N79-14738
p0210 A79-39973
- UEENO, T.
Spatial summation in human vision - Simple reaction time measurements
p0265 A79-47115
- UERHAMMER, T. J.
Development of an electrical energy converter for driving left heart assist blood pumps
[PB-293510/4]
p0241 N79-26780
- ULLMAN, S.
The interpretation of visual motion
Bandpass channels, zero-crossings, and early visual information processing
[AD-A062338]
p0186 A79-34424
p0170 N79-20724
- USTERHAENSCHIEDT, F.
Potential relationship between human central nervous system injury and impact forces based on primate studies
p0286 N79-31919
- URSABO, R. J.
Psychiatric education in aerospace medicine
p0202 A79-37712
- USACHEV, V. V.
Hemodynamic indices under orthostatic and vestibular effects
p0098 A79-20692
- USHAKOV, A. S.
Space biology and medicine
Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782
p0132 A79-26344
p0230 A79-41714
- USPENSKIY, L. S.
Effect of acute hypoxia on some parameters of renal excretory function and renal hemodynamics
p0245 N79-27828
- UTIDJIAN, H. M. D.
Feasibility of an epidemiological study of workers occupationally exposed to high voltage electric fields in the electric power industry
[EPRI-PA-1020]
p0316 N79-33832
- UTKIN, V. N.
Central and cerebral hemodynamics and metabolism of the healthy man during head-down tilting
p0127 A79-24634
Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system
p0245 N79-27831
- V**
- VACKAR, H. I.
Physiologicohygienic and ergonomic aspects of Salyut 6 cosmonauts extravehicular activity /EVA/
p0303 A79-53486
- VAIL, IU. S.
Automatic control of physiological functions of the human organism in pathology
p0132 A79-26350
- VAKIN, E. A.
Amino acids in southern Kamchatka hot springs
p0182 A79-33122
- VALBERG, A.
Chromatic border distinctness - Not an index of hue or saturation differences
p0139 A79-28332
- VALERI, C. R.
Temperature effects on shape and function of human granulocytes
[AD-A063750]
p0189 N79-22757
- VALETON, J. H.
Retinal site of transient tritanopia
p0256 A79-46623
- VALOT, C.
Visual acuity with regard to simultaneous colored contrast on a television screen - Results
p0103 A79-23952
- VAN BEAUMONT, W.
Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions
p0161 A79-29336
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man
p0163 N79-30624
- Sweating responses during heat acclimation and moderate conditioning
p0185 A79-33803
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man
p0235 A79-43208
- VAN BREDA KOLFF, K.
Weight control and restraint of laboratory rats
p0133 A79-26584
- VAN HORREN, D.
Private cone sensitivity to flicker during light and dark adaptation as indicated by the foveal local electroretinogram
p0104 A79-24065
- VAN VOLLENHOVEN, E.
Theoretical foundations of cardiovascular processes
p0256 A79-46623
- VAN WIJK, R. A.
Evaluation of models describing human operator control of slowly responding complex systems
p0167 A79-31494
- VANCOTT, H. P.
Arousal from sleep by emergency alarms: Implications from the scientific literature
[PB-284044/5]
p0051 N79-12700
- VANDERBELL-KAHN, J.
Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions
[PB-286851/1]
p0085 N79-15582
- VANDERHAMER, C. J. A.
Cu-content of the liver of young mice in relation to a defect in the Cu-metabolism
[IRI-133-77-02]
p0239 N79-26764
Results of a 64Cu-loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease)
[IRI-133-77-04]
p0240 N79-26774
The oral 64Cu-loading test: Applications and problems
[IRI-133-78-02]
p0240 N79-26775
- VANDERKAM, J. J.
Observability of electrical heart activity studied with singular value decomposition
[TH-78-E-81]
p0144 N79-18584
- VANDERMEULEN, J. P.
COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers
p0024 N79-11679
- VANDERSCHANS, G. P.
Evaluation of the risks involved in the application of tritium gas and measures which have to be taken
[MBL-1978-6]
p0122 N79-17541
- VANDERVAART, J. C.
Vestibular models and thresholds of motion perception. Result of tests in a flight simulator
[VTH-LR-265]
p0146 N79-18595
- VANDERWOLF, L.
Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation
p0239 N79-26765
- VANDEWOESTIJNE, K. P.
Follow-up and transversal study of vital capacity and FEV sub values among personnel of the Belgian Army forces
p0028 N79-11706
- VANDORP, D. A.
Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation
p0239 N79-26765
- VANECK, P.
Early diagnosis for decompression sickness. Changes in the blood found shortly after decompression. Part 2: Experiments on rats
[MBL-1978-7]
p0120 N79-17524
- VANZIJNSBERGEN, B.
General activities related to medical research
[THO-MPI-PR-6]
p0262 N79-29793
- VANGOOL, H. P. C.
Influence of motion wash-out filters on pilot tracking performance
[NLR-SP-78005-U]
p0124 N79-17554

- VANHAESTERT, J. A.**
 Evaluation of the Sierra Engineering Company lightweight helmet
 [AD-A061799] p0157 N79-19689
- VANHEMME, J. J.**
 Chemical protection against ionizing radiation: A survey of possible mechanisms
 [NBL-1977-8] p0122 N79-17540
- VANHEUSDEN, E.**
 Effects of acute noise traumata on whole-nerve and single-unit activity
 [IZF-1978-23] p0308 N79-32829
- VANHOODONK, C.**
 Percutaneous absorption of toxic agents. Part 2: The nerve bases and some other toxic organophosphates. A survey of the literature.
 [PL-1978-9] p0123 N79-17542
- VANLUMTEREN, A.**
 Parameter estimation in a human operator describing function model for a two-dimensional tracking task p0115 N79-17481
- VANMORDSTRAND, P. C.**
 Regional program for acquisition of medical experiments
 [NASA-CR-160121] p0155 N79-19677
- Systems identification and application systems development for monitoring the physiological and health status of crewmen in space
 [NASA-CR-160235] p0212 N79-24642
- VANSTEENWYK, R.**
 Short-range movement of major agricultural pests p0148 N79-19594
- VANSTRATUM, P.**
 Physiological effects of a high soybean protein diet in man p0240 N79-26777
- VANWIJK, R. A.**
 A model of the human supervisor p0117 N79-17495
- VARFOLOMEYEV, V. A.**
 Tremometry as a method of evaluating the functional state of the nervous system of a pilot p0300 A79-53065
- VARTANIAN, I. A.**
 Auditory analysis of complex sound: Electrophysiological investigations p0167 A79-31899
- VASILEV, A.**
 On the latency of human visually evoked response to sinusoidal gratings p0232 A79-42236
- VASILEVA, S. V.**
 Role of n-aminobenzoic acid in repairing UV and gamma radiation damage p0301 A79-53211
- VASSOUT, P.**
 The effects of strong shock waves on mortality rates and percentages of pulmonary lesions in rats as a function of the number of exposures
 [NASA-TM-75598] p0053 N79-13676
- VATULYA, N. N.**
 Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792
- VAUGHAN, B. E.**
 Pacific Northwest Laboratory report for 1977 to the DOE assistant secretary for environment. Part 2: Ecological sciences
 [PNL-2500-PT-2] p0053 N79-13677
- VAUGHAN, J. A.**
 Visual acuity of the aging hyperopic eye in the intermediate range p0037 A79-13198
- Aeromedical implications of the X-Chrom lens for improving color vision deficiencies p0135 A79-27556
- Visual performance assessment through clear and sunscreen-treated windows
 [AD-A059750] p0080 N79-14775
- Visual and optical assessment of gas protective face masks p0152 N79-19642
- The optical properties of smoke-protective devices
 [FAA-AM-78-41] p0242 N79-26784
- VAUGHN, C. R.**
 Radar, Insect Population Ecology, and Pest Management
 [NASA-CP-2070] p0147 N79-19592
- VDHORST, A. R. A.**
 The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving
 [IZP-1978-16-PR-1] p0145 N79-18588
- VEGHTE, J. H.**
 Temperature changes during exercise measured by thermography p0235 A79-43209
- VEICSTEINAS, A.**
 Oxygen affinity of blood in altitude Sherpas p0268 A79-47854
- VELDHUYZEN, W.**
 Modelling the human operator of slowly responding systems using linear models p0117 N79-17492
- VELEZ, S.**
 Laser safety bioeffects research - Histopathology of retinal effects p0138 A79-28169
- VELLEND, B.**
 Determination of antimicrobial susceptibilities on infected urines without isolation
 [NASA-CASE-GSC-12046-1] p0076 N79-14750
- VELTHUYS, B.**
 Photochemistry and enzymology of photosynthesis
 [COO-3326-70] p0239 N79-26763
- VENOT, V. P.**
 Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- VENTERS, M. D.**
 Blood volume and cardiorespiratory responses to lower body negative pressure p0010 A79-12864
- Effects of regional hemoconcentration during LBNP on plasma volume determinations p0269 A79-47326
- Specialized physiological studies in support of manned space flight
 [NASA-CR-151876] p0111 N79-16542
- VENTILLA, M.**
 Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums p0203 A79-37935
- VERESOTSKAYA, N. A.**
 Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- VERGEAU, B.**
 A new case of autochthonous malaria in the Paris region associated with frequentation of airports - Recommendations of prophylactic procedures p0104 A79-23958
- VERGHESE, C. A.**
 Biodynamics of aviation stresses on the vertebral column p0272 A79-49733
- VERGILES, N. IU.**
 Eye movements and visual perception p0267 A79-47429
- VERGNE-MARINI, P.**
 Early cardiovascular adaptation to simulated zero gravity p0162 A79-29727
- VERGROESEN, A. J.**
 Aspects of dietary prevention of arteriosclerosis p0262 N79-29792
- VERICH, N. H.**
 Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- VERIGO, V. V.**
 Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body p0192 N79-23628
- Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630
- Some of the problems involved in planning biological experiments p0312 N79-33805

PERSONAL AUTHOR INDEX

VNUKOV, V. V.

- VERMA, R. N.**
Assessment of burns in accident fatalities p0272 A79-49729
- VERMA, S. P.**
Aerobiotelemetry from a fighter aircraft p0200 A79-37131
- VERNİKOS-DANELLIS, J.**
Comparison of circadian rhythms in male and female humans p0004 A79-11947
Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948
Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat p0005 A79-12474
Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man p0267 A79-47398
Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
Indometacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
- VERNOT, E. H.**
Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870
- VERONA, R. W.**
Contrast sensitivity of the human eye to various display phosphor types [AD-A058383] p0056 N79-13695
Head aiming/tracking accuracy in a helicopter environment p0153 N79-19651
- VERPLANK, W. L.**
Human/computer control of undersea teleoperators p0089 N79-15612
Display aids for remote control of untethered undersea vehicles p0090 N79-15613
The facilitating effects of uncertainty in long-term manual control p0115 N79-17485
- VERSCHELL, H. J.**
Atmospheric neutrons [NASA-CR-3126] p0211 N79-24631
- VETTES, B.**
Special test for astronaut selection - Tests of tolerance in the centrifuge and in flight p0047 A79-15491
Cardiac reactions in tests on the wearing of the Yankee Escape System harness during minus G accelerations in the z direction p0103 A79-23953
Conduction difficulties of vagal origin in flight personnel - Significance of intrathoracic data on the bundle of His p0103 A79-23955
Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles p0030 N79-11716
Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins p0287 N79-31925
- VIADEO, M. D.**
Some tests used in the practice of aviation medical examination for differential diagnosis of heart diseases p0188 A79-35136
- VIARD, D.**
Selection and techniques for analysis of indices of visual data reception. II p0047 A79-15494
Choice and techniques of analysis of indices for the perception of visual information. III p0103 A79-23954
- VICENS**
Vertebral pains in helicopter pilots
- VIEILLEFOND, H.**
Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs p0153 N79-19656
- VIEILLEFOND, H.**
Special tests for astronaut selection - Muscular exercise test p0028 N79-11707
- VIEILLEFOND, H.**
Special tests for astronaut selection - Muscular exercise test p0047 A79-15492
- VIGASH, M.**
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- VIKHROV, A. I.**
Atlas of the dose characteristics of external ionizing radiation /Handbook/ p0098 A79-20669
- VIKHROV, A. I.**
Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method p0015 N79-10707
- VIKMANIS, M.**
Modeling human tracking performance in a high G-stress environment p0269 A79-48012
- VIKMANIS, M. M.**
AAA gunnermodel based on observer theory p0087 N79-15594
- VIRTOROV, A. M.**
Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715
- VIL-VILLYAMS, I. F.**
Prophylactic effects of intermittent acceleration against physiological deconditioning in simulated weightlessness p0229 A79-41712
- VIL-VILLYAMS, I. F.**
Cardiac arrhythmia following postimmersion +G sub z accelerations p0015 N79-10710
- VILLAUME, J. E.**
A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11685
- VILLOTA, R.**
Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research [NASA-CR-158846] p0260 N79-28880
- VINOGRADOV, G. I.**
Immunological effects of microwave action p0172 N79-20736
- VINOGRADOV, IU. A.**
Radiobiological investigations in Cosmos 782 space flight /Biobloc SF1 experiment/ p0006 A79-12518
- VINOGRADOVA, L. A.**
Microflora of water reclaimed in sealed compartments p0193 N79-23638
- VINOGRADOVA, L. N.**
Relationship between the reproduction tactics and the major indices of speech retention-reproduction processes p0254 A79-46276
- VITOVTÖVA, T. I.**
Magnetic field effect on radial processes in biological membranes p0172 N79-20737
- VLASOVA, T. F.**
Studies of amino acid metabolism in the muscles of rats flown aboard the biosatellite Cosmos 782 p0230 A79-41714
- VLES, R.**
Effects of dietary fats on atherosclerosis and thrombosis p0240 N79-26776
- VLODAVETS, V. V.**
Microflora of water reclaimed in sealed compartments p0193 N79-23638
- VNUKOV, V. V.**
Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation,

- and the protective effect of urea p0193 N79-23637
- VODIAN, M. A.
Studies on the bioassayable growth hormone-like activity of plasma p0267 A79-47848
- VOGEL, F. S.
Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- VOGEL, J. A.
Physiological effects of a military training program on males and females [AD-A062936] p0220 N79-25744
- VOGT, J. J.
Human skin wettedness and evaporative efficiency of sweating p0162 A79-29726
Effect of rate of change in skin temperature on local sweating rate p0268 A79-47853
- VOGT, L.
The response of a realistic computer model for sitting humans to different types of shocks p0288 N79-31927
- VOKHMINTEEV, A. V.
Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- VOLKHAMM, C.
COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- VOLOSHIN, V. G.
Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
- VOLOSHKO, N. A.
Dynamics of the catalase activity of the blood of athletes under the influence of local decompression p0271 A79-49699
- VOLOZHIN, A. I.
Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
- VON BAUMGARTEN, R. J.
A model for vestibular function in altered gravitational states p0229 A79-41710
- VON BECKH, H. J.
Physiologic and performance measurements in simulated airborne combined stress environments p0202 A79-37710
- VON GIERKE, H.
Can man be calculated - Biological models in aeronautical medicine and engineering p0161 A79-29589
- VON GRUENAU, H.
Form information is necessary for the perception of motion p0232 A79-42235
- VON HULDAU, H. H.
Overview of the use of robots in space missions [DGLR PAPER 78-154] p0042 A79-14099
- VONGIERKE, H. E.
Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection [AGARD-CP-253] p0288 N79-31901
The validation of biodynamic models p0286 N79-31914
- VOS, J. J.
The want and feasibility to temper sunlight for the eyes [IZF-1977-21] p0122 N79-17538
Sunglasses for drivers? [IZF-1977-24] p0122 N79-17539
Acceptable radiation levels in the ultraviolet visible infrared regions [IZF-1978-15] p0248 N79-27853
- VUJMOVIC, D.
The comparative study of metabolism changes dynamics during hypoxia and hyperoxia in mice lungs
- [IAF PAPER 78-51]
VIKUKAL, H. C.
Spacesuit mobility knee joints [NASA-CASE-ARC-11058-2] p0214 N79-24651
Spine immobilization method and apparatus [NASA-CASE-ARC-11167-1] p0279 N79-30921
- VYNIATKINA, Z. K.
Cerebral gas exchange in rats adapted to hypoxia during inspiration of oxygen-poor mixtures p0097 A79-20623
- VYTCHIKOVA, M. A.
Energy expenditures of man during long exposure to a periodically changing atmosphere p0312 N79-33799
- W**
- WAAG, W. L.
Recent studies of simulation training effectiveness [SAE PAPER 781006] p0130 A79-25888
- WACHTEL, T. L.
Effect of fiber and dye degradation products /PDP/ on burn wound healing p0298 A79-52277
Bioassay of thermal protection afforded by candidate flight suit fabrics p0298 A79-52280
Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis [AD-A066990] p0153 N79-19662
- A porcine bioassay study of the physiological effects of fiber and dye degradation products (PDP) on burn wound healing [AD-A066990] N79-25748
- Evaluation of four thermally protective fabrics using the USAARL bioassay method [AD-A067351] p0223 N79-25762
Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946] p0223 N79-25766
- WADDELL, J.
Soviet civil aviation training programs p0270 A79-49221
- WADDELL, J. L.
Current trends in UK military aircrew survival equipment p0183 A79-33633
- WADE, C. E.
Regional heat loss in resting man during immersion in 25.2 C water p0202 A79-37709
- WADHAWAN, H. L.
Ageing and flying fitness p0182 A79-33190
- WAGENAAER, W. A.
The use of artificial signals during SONAR-watch [IZF-1978-25] p0309 N79-32837
- WAGNER-BARTAK, C. G.
Manned simulations of the SRMS in SIMFAC p0089 N79-15611
- WALKER, C. F.
Multi-channel stimulation of peripheral nerve trunks p0176 N79-21753
- WALKER, G. W. R.
Nucleotide-binding site data and the origin of the genetic code p0206 A79-37974
- WALKER, S.
Development of space biology experiments for the Space Shuttle - A student's perspective [AAS PAPER 78-134] p0099 A79-21252
- WALL, R. J.
Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1] p0050 N79-12694
- WALLER, H. C.
Models of human operators in vision dependent tasks [NASA-CP-2103] p0317 N79-33838
- WALRAVEN, G. E.
Raman and infrared investigations of the nature of intracellular water [AD-A061254] p0120 N79-17522
- WALSH, A. B.
Cell response to chronic irradiation-modeling and simulation studies p0142 N79-18562
- WALTER, J.
The significance of rhythm disturbances in asymptomatic persons

- WALTER, P. V. p0027 N79-11698
Skin-resistance measuring device with higher resolution p0252 A79-45476
- WALTHER, U. p0048 A79-16235
Helicopter night operations - Feasibility and impact on the overall system p0170 N79-20723
- WANG, T. C. p0045 A79-14795
Mathematical studies of oxygen transport to tissue [ONERA, TP NO. 1978-10] p0226 A79-40646
- WAHNER, J.-C. p0045 A79-14795
The multiloop concept of the pilot work load as a basis of future experiments and studies [ONERA, TP NO. 1978-10] p0226 A79-40646
- WANZEK, S. J. p0055 N79-13690
Aircrew inflight physiological data acquisition system 2 [AD-A055638] p0255 A79-46598
- WARD, C. p0286 N79-31918
A head injury model p0163 A79-30218
- WARD, S. L. p0234 A79-43205
An algorithm to ascertain critical regions of human tracking ability p0163 A79-30218
- Determination of cerebral and neck subcutaneous tissue PO2 with 3 and 4 +Gz in M. mulatta p0294 A79-51036
- WARNKE, C. T. p0294 A79-51036
A study of noninvasive blood pressure measurement techniques p0286 N79-31918
- WARTZOK, D. p0061 A79-18008
Radio tracking of a fin whale /Balaenoptera physalus/ p0086 N79-15590
- WASHIZU, K. p0119 N79-17514
A study of the effect of forcing function characteristics on human operator dynamics in manual control p0119 N79-17514
- WASIELEWSKI, M. R. p0131 A79-26100
In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria p0085 N79-15582
- WASSERMAN, J. P. p0227 A79-41184
Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0025 N79-11685
- WASSERMAN, K. p0227 A79-41184
Anaerobic threshold alterations caused by endurance training in middle-aged men p0025 N79-11685
- WASTI, K. p0025 N79-11685
A literature review-problem definition studies on selected toxic chemicals. Volume 2: Occupational health and safety aspects of phosphorus smoke compounds [AD-A056019] p0025 N79-11687
- WEINSTEIN, L. p0025 N79-11687
A literature review-problem definition studies on selected toxic chemicals. Volume 5: Occupational health and safety and environmental aspects of zinc chloride [AD-A056020] p0025 N79-11687
- WATANABE, K. p0206 A79-37976
Structure-stability relationship of thermophile tRNA - A model for biological adaptation and limit of life at high temperature p0037 A79-13197
- WATANABE, Y. p0037 A79-13197
Simulation study on time series of heart responses p0202 A79-37707
- WATT, D. G. p0202 A79-37707
Doppler detection of thresholds for decompression-induced venous gas emboli in the awake rat p0187 A79-34985
- WATTERS, H. H. p0132 A79-26373
Construction in space - Toward a fresh definition of the man/machine relation [AD-A063148] p0185 A79-33806
- WATTS, C. D. p0294 A79-51036
A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem p0294 A79-51036
- WEAVER, C. S. p0294 A79-51036
A study of noninvasive blood pressure measurement techniques p0185 A79-33806
- WEBBER, C. p0185 A79-33806
Changes in lung volume, lung density, and distribution of ventilation during hypobaric decompression p0300 A79-52894
- WEBBER, K. T. p0291 A79-31949
The metabolic demand and oxygen supply of the heart - Physiologic and clinical considerations p0291 A79-31949
- WEBER, O. p0291 A79-31949
Analyses of midair collisions in German airspace: Methodology and results p0257 A79-46967
- WEBER, P. p0257 A79-46967
Isolation of a shock-induced circulating cardiodepressant substance p0254 A79-46226
- WEBSTER, J. G. p0254 A79-46226
Portable device for detection of petit mal epilepsy p0315 N79-33828
- WEED, R. I. p0315 N79-33828
Studies of metabolism, function and mechanism of destruction of red cells [AD-A070240] p0302 A79-53291
- WEGMANN, H. H. p0302 A79-53291
Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88] p0101 A79-23075
- WEI, E. P. p0101 A79-23075
Responses of pial arterioles after prolonged hypercapnia and hypoxia in the awake rabbit p0084 N79-15578
- WEICHENREIDER, A. p0084 N79-15578
The influence of mechanical vibration and noise on the peripheral blood circulation at skin level [RAE-LIB-TRANS-1980] p0167 A79-31887
- WEIGEL, C. L. p0167 A79-31887
Pilot preflight briefing utilizing an interactive computer generated Voice Response System p0133 A79-27104
- WEIL, J. V. p0133 A79-27104
Exercise ventilation correlates positively with ventilatory chemoresponsiveness p0066 A79-18954
- WEIMER, F. C. p0066 A79-18954
CO₂ and exercise tidal volume p0166 A79-18287
- WEIMAN, F. C. p0166 A79-18287
Biped stability considerations with vestibular models p0076 N79-14750
- WEINSTEIN, L. p0076 N79-14750
Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0186 A79-33949
- WEISBERG, D. p0186 A79-33949
A further investigation of visual dominance p0173 N79-20742
- WEISS, D. J. p0173 N79-20742
Proceedings of the 1977 Computerized Adaptive Testing Conference [AD-A060049] p0079 N79-14771
- WEISS, M. S. p0079 N79-14771
A construct validation of adaptive achievement testing [AD-A063148] p0287 N79-31921
- WEISS, M. S. p0287 N79-31921
The effect of impact acceleration on the electrical activity of the brain p0315 N79-33825
- WELCH, A. J. p0315 N79-33825
Measurements in the laser irradiated eye [AD-A069842] p0274 A79-50108
- WELKOWITZ, W. p0274 A79-50108
A catheter flow probe for measurement of left ventricular source parameters p0274 A79-50108
- WELLS, A. F. p0274 A79-50108
Water system virus detection

- [NASA-CASE-MSC-16098-1] p0013 N79-10693
WELLS, C. H.
 Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen p0164 A79-30655
- WELPE, E.**
 Visual angle constancy for the subjective checkerboard pattern, as an indication of cortical origination of size constancy p0231 A79-42232
- WELSH, K. W.**
 Visual acuity of the aging hyperopic eye in the intermediate range p0037 A79-13198
 Aeromedical implications of the X-Chrom lens for improving color vision deficiencies p0135 A79-27556
 Visual performance assessment through clear and sunscreen-treated windows [AD-A059750] p0080 N79-14775
 Visual and optical assessment of gas protective face masks p0152 N79-19642
 The optical properties of smoke-protective devices [FAA-AM-78-41] p0242 N79-26784
- WENGER, C. B.**
 Control of skin blood flow during exercise - thermal and nonthermal factors p0185 A79-33807
- WEST, B.**
 The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (FMR) p0018 N79-10733
- WEST, J. B.**
 Distribution of pulmonary ventilation and perfusion during short periods of weightlessness p0068 A79-18967
 Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269
- WESTBROOK, R. H.**
 A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590] p0239 N79-26762
- WESTON, L. M.**
 An Air Combat Effectiveness Study /ACES/ program p0040 A79-13222
- WESTOVER, J. B.**
 Food packages for Space Shuttle [ASME PAPER 78-ENAS-13] p0007 A79-12562
- WESTURA, E. E.**
 Experience with periodic aviation medical examinations p0026 N79-11696
- WEWERINKE, P. H.**
 A theoretical and experimental analysis of the outside world perception process p0091 N79-15625
 An analysis of helicopter pilot control behaviour and workload during instrument flying tasks [NLR-MP-78003-U] p0124 N79-17553
 An analysis of helicopter pilot control behavior and workload during instrument flying tasks p0150 N79-19630
 Performance and workload analysis of inflight helicopter missions [NLR-MP-77013-U] p0308 N79-32834
 A theoretical and experimental analysis of the outside world perception process [NLR-MP-78020-U] p0309 N79-32835
- WEYER, D.**
 Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844
- WHEELER, G. L.**
 Minimum sea surface temperatures and associated survival times [AD-A070162] p0315 N79-33824
- WHETTEN, L. L.**
 Soviet civil aviation training programs p0270 A79-49221
- WHINNERY, J. E.**
 Incapacitation time for +Gz-induced loss of consciousness p0102 A79-23475
 Better definition of eye to aortic valve distance in high acceleration cockpit /HAC/ seating geometries p0183 A79-33632
 Concurrent loss of consciousness and sino-atrial block during +Gz stress p0202 A79-37714
 +Gz tolerance correlation with clinical parameters p0235 A79-43213
 Reproducibility of +Gz tolerance testing p0267 A79-47337
 Technique for simulating G-induced tunnel vision p0299 A79-52286
- WHIPP, B. J.**
 Anaerobic threshold alterations caused by endurance training in middle-aged men p0227 A79-41184
- WHITE, G. L.**
 Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
- WHITE, G. R.**
 Cold water survival suits for aircREW p0298 A79-52282
 Cold water survival suits for aircREW [ARL/SYS-NOTE-56] p0261 N79-28882
- WHITE, R. C.**
 Life sciences experiments mission development test program [ASME PAPER 78-ENAS-36] p0008 A79-12583
- WHITE, R. J.**
 A long term model of circulation [NASA-CR-147674] p0212 N79-24636
 Acid-base homeostasis in the human system [NASA-CR-160222] p0212 N79-24640
 A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722
 Fluid and electrolyte control systems in the human body: A study report [NASA-CR-160210] p0217 N79-25723
 On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
- WHITE, R. M.**
 United States Army anthropometry: 1946-1977 [AD-A068095] p0289 N79-31938
- WHITEHEAD, G. D.**
 Manned simulations of the SRMS in SIMPAC p0089 N79-15611
- WHITEHURST, H. O.**
 The relative effects of multiple factors on target acquisition p0267 A79-47765
- WHITEFIELD, D.**
 A preliminary study of the air traffic controller's 'picture' p0221 A79-36227
- WHITHAM, E. M.**
 The biodynamic response of the human body and its application to standards p0288 N79-31929
- WHITTLE, H. W.**
 Caloric and exercise requirements of space flight - Biostereometric results from Skylab p0128 A79-24637
- WICHMAN, H.**
 In-flight measures of stress reduction due to wearing expandable foam earplugs p0273 A79-49986
- WICKENS, C. D.**
 The event related cortical potential as an index of task workload p0038 A79-13208
 The effects of participatory mode and task workload on the detection of dynamic system failures p0098 A79-21156
 The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems p0087 N79-15596
- A quasi-linear control theory analysis of timesharing skills p0115 N79-17479

- The effects of participatory mode and task workload on the detection of dynamic system failures p0116 N79-17487
- Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730] p0282 N79-30942
- WICKRAMASINGHE, C. Lifecloud: The origin of life in the universe p0061 A79-17123
- WICKS, S. H. Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [FAA-AM-78-40] p0144 N79-18581
- WIERWILLE, W. W. The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance p0089 N79-15608
- The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator [RS-GMR-2394] p0115 N79-17484
- WIJMAN, M. Early diagnosis for decompression sickness. Changes in the blood found shortly after decompression. Part 2: Experiments on rats [MBL-1978-7] p0120 N79-17524
- WIKE, G. A. Compact artificial hand [NASA-CASE-NPO-13906-1] p0214 N79-24652
- WIKSWO, J. P., JR. Clinical magnetocardiography p0295 A79-51044
- WILEY, R. W. Night vision goggles and in-flight evaluation of the inside/outside refocusing problems in a UH-1H helicopter p0063 A79-18215
- WILF, J. M. Robotic vision p0187 A79-34984
- WILKINS, J. R. Use of platinum electrodes for the electrochemical detection of bacteria p0131 A79-26146
- WILLERSON, J. T. ST isopotential precordial surface maps in patients with acute myocardial infarction p0098 A79-21245
- WILLIAMS, B. A. An inductively powered telemetry system for temperature, EKG, and activity monitoring Subcutaneous channeling probe [NASA-CASE-ARC-11091-1] p0228 A79-41424 p0025 N79-11684
- WILLIAMS, D. Short-term memory factors in ground controller/pilot communication p0181 A79-32626
- WILLIAMS, D. S. The robot's eyes - Stereo vision system for automated scene analysis p0004 A79-12006
- Robotic vision p0187 A79-34984
- WILLIAMS, L. R. Distribution of phytoplankton in North Carolina lakes [PB-286387/6] p0084 N79-15573
- Distribution of phytoplankton in Arkansas lakes [PB-292742/4] p0240 N79-26768
- WILLIAMS, M. D. Evolution of enzyme function - The coupled oscillator theory p0205 A79-37970
- WILLIAMS, R. A. Velocity precision in smooth pursuit eye movements p0129 A79-25399
- WILLIAMS, T. E. System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1] p0013 N79-10694
- WILLIGES, B. H. Models for automated motor skills training Augmented feedback in adaptive motor skill training p0035 A79-13182 p0062 A79-18208
- Cross-validation of regression equations to predict performance in a pursuit tracking task p0064 A79-18222
- WILLIGES, R. C. Models for automated motor skills training p0035 A79-13182
- Experimental designs for investigating complex human operator/machine systems p0040 A79-13225
- Augmented feedback in adaptive motor skill training p0062 A79-18208
- Cross-validation of regression equations to predict performance in a pursuit tracking task p0064 A79-18222
- WILLMERT, K. D. Graphic display of human motion [AD-A064344] p0190 N79-22763
- WILSON, D. A. A transient analysis of the cerebrovascular response to carbon dioxide p0111 N79-16539
- WILSON, G. L. Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122] p0052 N79-12706
- Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521] p0081 N79-14780
- WILSON, J. D. The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum p0018 N79-10731
- WILSON, L. General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4] p0113 N79-16556
- WILSON, T. A. Modeling the effect of axial bronchial tension on expiratory flow p0067 A79-18957
- Improved measurements of shear modulus and pleural membrane tension of the lung p0236 A79-43702
- Distribution of regional volumes and ventilation in excised canine lobes p0236 A79-43703
- WINGET, C. M. Comparison of circadian rhythms in male and female humans p0004 A79-11947
- Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948
- The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man p0267 A79-47398
- Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88] p0302 A79-53291
- WINKLE, L. Reproductive adaptation in Drosophila exposed to oxygen-enriched atmospheres p0164 A79-30657
- WINSHIP, J. A. The fitting of Canadian Forces aircrew helmets - Why the difference p0184 A79-33645
- WINTER, D. L. Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study [NASA-SP-430] p0054 N79-13686
- WINTER, W. R. Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
- WITTERSON, B. J. Quality of retinal image stabilization during small natural and artificial body rotations in man p0225 A79-40187
- WIRTHS, G. Spacelab environmental control/life support system /ECLS/ for life science experiments [IAF PAPER 78-59] p0003 A79-11225
- WISSEMAN, D. A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology

- [AD-A069983] p0308 N79-32833
WISWELL, R. A.
 Time course of 02-pulse during various tests of aerobic power p0297 A79-52024
WITOWSKI, B. J.
 Development of aerospace-aviation equipment described p0081 N79-14795
WITT, W. H.
 Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
WITTE, M. E.
 Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
WITWER, B.
 Morphological and biochemical effects of oxygen toxicity [AD-A056778] p0018 N79-10734
WOESE, C. R.
 A proposal concerning the origin of life on the planet earth p0253 A79-45641
WOLBARSHT, M. L.
 Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation [AD-A063852] p0189 N79-22756
WOLCOTT, J. H.
 Correlation of choice reaction time performance with biorhythmic criticality and cycle phase p0102 A79-23471
WOLCZEK, O.
 Chirality of compounds essential for the existence of life, and the possibility of its evolution in the universe p0186 A79-34464
WOLF, J. D.
 Crew workload assessment. Development of a measure of operator workload [AD-A068616] p0261 N79-28884
WOLF, J. J.
 A survey of Applied Psychological Services' models of the human operator p0317 N79-33839
WOLF, W.
 Radar, Insect Population Ecology, and Pest Management [NASA-CP-2070] p0147 N79-19592
WOLPE, C.
 Composition of cerebral fluids in goats adapted to high altitude [AD-A070142] p0310 N79-33788
WOLPE, D.
 Composition of cerebral fluids in goats adapted to high altitude p0277 A79-50902
WOLPE, J. H.
 Eye torsion and visual tilt are mediated by different binocular processes p0256 A79-46651
WOLPE, L. A.
 Effects of endurance training on left ventricular dimensions in healthy men p0237 A79-43706
WOLLENBERGER, A.
 Effect of adaptation to high-altitude hypoxia on cardiac adrenoreactivity and the state of the adenylyl cyclase and phosphodiesterase systems in the myocardium p0255 A79-46500
WOLLSCHLAEGER, P. B.
 Microwave apexcardiography p0231 A79-41848
WOLTHUIS, R. A.
 Reproducibility of human cardiovascular responses to orthostatic stress p0030 N79-11720
WOLTHUIS, R. A.
 Relaxed +Gz tolerance in healthy men - Effect of age p0067 A79-18956
 Blood pressure variability of the individual in orthostatic testing p0265 A79-47328
 Distinguishing borderline hypertensives from normotensives: A clinical study of 300 aircrewmen p0027 N79-11699
 Detection of coronary artery disease in apparently healthy, asymptomatic aircrew members using thallium-201 myocardial perfusion scintigraphy p0029 N79-11712
 Effect of age on relaxed +G sub z tolerance of aircrewmen p0030 N79-11719
WONG, J. T.-F.
 Inadequacy of prebiotic synthesis as origin of proteinous amino acids p0253 A79-45643
WOOD, G. A.
 Electrophysiological correlates of local muscular fatigue effects upon human visual reaction time p0297 A79-52025
WOOD, W. C.
 Implementation of a divisional aviation program to decrease flight crew fatigue p0150 N79-19624
WOODRUFF, R. R.
 Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view [AD-A070231] p0308 N79-32832
WOODS, R. R.
 Electrochemically regenerable carbon dioxide absorber [NASA-CR-152099] p0262 N79-29794
WOODSON, W. E.
 Development of recommendations to improve controls operability [PB-284433/0] p0053 N79-12714
WOODWARD, C. C.
 High 'Q' escape protection p0044 A79-14428
WOOTEN, F. T.
 Medical technology transfer p0048 A79-16138
WORTMAN, D. B.
 Modeling and analysis using SAINT - A combined discrete/continuous network simulation language p0004 A79-11480
WRIGHT, E. E.
 A system for sterilizing objects [NASA-CASE-KSC-11085-1] p0318 N79-33848
WU, T.-K.
 Electromagnetic fields and power deposition in body-of-revolution models of man p0130 A79-26007
WURSTER, R. D.
 Role of skin temperature in the control of sweating p0277 A79-50907
WURTMAN, R. J.
 Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
WYATT, H. J.
 The role of perceived motion in smooth pursuit eye movements p0225 A79-40184
WYATT, H. L.
 Influences of physical conditioning and deconditioning on coronary vasculature of dogs p0067 A79-18955
WINVEEN, R. A.
 Instrumentation for controlling and monitoring environmental control and life support systems [ASME PAPER 78-ENAS-40] p0009 A79-12587
 Technology advancement of an oxygen generation subsystem [NASA-CR-152257] p0261 N79-28883

Y

- YAGODOVSKII, V. S.**
 Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
YAKIMENKOV, L. I.
 Ultrasonic doppler directional blood flow velocity meter [RAE-LIB-TRANS-1918] p0279 N79-30920
YAKIMOVA, I. V.
 Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643

- Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
- YAKHOVA, Y.**
Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- YAKOVLEVA, V. I.**
Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite p0014 N79-10703
- Comparative analysis of causes of animal deaths during chronic exposure to gamma radiation and the aftereffect period p0016 N79-10718
- YAKUSHEVA, V. I.**
Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
- YAKUT, E. M.**
Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56] p0003 A79-11224
- Life support systems for biological specimens in the Shuttle/Spacelab [ASME PAPER 78-ENAS-38] p0009 A79-12585
- YAMAHARA, T.**
Evolutionary relationship based on a biochemical study of energy-acquiring system between Nitrosomonas europaea and Thiobacillus novellus p0205 A79-37966
- YAMASHIRO, S. M.**
Application of pseudo random binary sequence input to identification of respiratory control dynamics p0268 A79-48011
- YANAGAWA, H.**
Experimental approach to the chemical evolution in the primeval sea. I - Formation of amino acids and amino acid polymers in modified sea mediums p0203 A79-37935
- Experimental approach to the chemical evolution in the primeval sea. II - Formation of protocell-like structures 'marigranules' in a modified sea medium p0204 A79-37964
- YANG, E.**
Organic geochemical studies on kerogen precursors in recently deposited algal mats and oozes p0001 A79-10419
- YANG, J.**
Estimation of rate constants in the Michaelis-Menten model [AD-A070360] p0307 N79-32824
- YANG, P. Y.**
Instrumentation for controlling and monitoring environmental control and life support systems [ASME PAPER 78-ENAS-40] p0009 A79-12587
- YANG, W.-J.**
Theoretical foundations of cardiovascular processes p0304 A79-53531
- Equations on biotransport mechanisms p0304 A79-53535
- YANKO, V. M.**
The systemic principles of building a man-machine control staff p0249 N79-27861
- YANKYAVICHYUS, R. K.**
Effects of electromagnetic field induction on development of the green algae, scenedesmus quadricauda (Turbpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- YASUI, S.**
A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples p0160 A79-28993
- YAU, K.-W.**
Thermal activation of the visual transduction mechanism in retinal rods p0230 A79-41746
- YAZDOVSKIY, V. I.**
Utilization of the wastes of vital activity [NASA-TM-75410] p0177 N79-21768
- YEE, J. P.**
Development and application of resistive pulse spectroscopy: Studies on the size, form and deformability of red blood cells [LBL-8640] p0280 N79-30924
- YEGOROV, I. A.**
Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- YEGOROVA, I. A.**
Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite p0014 N79-10702
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- YEGRUNOVA, M.**
Medical science in Siberia: Oxygen exchange in the Far North [NASA-TM-75391] p0211 N79-24630
- YEIN, F.**
Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- YEH, T. T.**
Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545
- YERMOLEVAYA, E. V.**
Psychological experiment on components of the meaning of work p0071 N79-14709
- YEROKHIN, V. I.**
A photometer for determining the biomass of microorganism from the ATP content [BLR-RTS-11456] p0141 N79-18555
- YIEH, D. T. H.**
Trace contaminant studies of HSC adsorbent [NASA-CR-160148] p0177 N79-21769
- YIPIINTSOI, T.**
Effect of exercise on collateral development in dogs with normal coronary arteries p0067 A79-18960
- YONETAMA, T.**
Electromagnetic power absorption in cylindrical tissue models excited by a loop antenna p0136 A79-27959
- YOUNG, D. M.**
Training requirements for helicopter operation with night vision goggles p0153 N79-19650
- YOUNG, D. R.**
In-vivo bone strain telemetry in monkeys /M. nemestrina/ p0002 A79-10608
- Effects of hypodynamic simulations on the skeletal system of monkeys p0146 N79-19021
- YOUNG, J. T.**
Regional coronary blood flow at rest and during high sustained +Gz in a miniature swine with subclinical, ischemic, coronary heart disease due to coronary stenosis p0010 A79-12865
- YOUNG, L. L., III**
Health and safety hazards associated with solar concentration systems p0200 A79-36628
- YOUNG, L. R.**
A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples p0160 A79-28993
- Manual control of yaw motion with combined visual and vestibular cues p0119 N79-17513
- Sensory mechanism modeling [AD-A069439] p0262 N79-29796
- YOUNG, M. E.**
Effects of fatigue on human behavior and performance. A bibliography with abstracts [NTIS/PS-79/0071/5] p0177 N79-21762
- Human memory. A bibliography with abstracts [NTIS/PS-79/0640/7] p0318 N79-33847
- YOUNG, R. S.**
Publications of the planetary biology program for 1977: A special bibliography [NASA-TM-80338] p0179 N79-21777
- Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
- YOUNGLING, E. W.**
An Air Combat Effectiveness Study /ACES/ program

YOUNT, D. E. p0040 A79-13222
 Application of a bubble formation model to decompression sickness in rats and humans p0102 A79-23473

YUBROVA, K. S. Effects of endogenous factors on the process of gas bubble formation in the body related to decompression p0015 N79-10713

YURUGI, R. Effects of dietary composition on nutritional state in rats during exposure to high altitude p0134 A79-27118

Z

ZABALA ITURRALDE, J. Control of robot manipulators from the modeling of their dynamics p0101 A79-23427

ZACHARIAS, G. L. Manual control of yaw motion with combined visual and vestibular cues p0119 N79-17513
 Motion cue models for pilot-vehicle analysis [AD-A061477] p0125 N79-17561

ZAKHAROVA, N. S. Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797

ZALESKY, P. J. Hybrid computation of left ventricular performance using noninvasive techniques [AD-A063749] p0190 N79-22758

ZALOGUYEV, S. N. Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715

ZALYUBOVSKAYA, N. P. Effect of radio waves of a millimeter frequency range on the body of man and animals p0172 N79-20735

ZALYUBOVSKYY, I. I. Magnetic field effect on radial processes in biological membranes p0172 N79-20737

ZAMEL, N. Absence of effects of hypoxia on small airway function in humans p0268 A79-47851

ZARETSKIY, V. V. Ergometric tests in expert medical certification of flight personnel p0109 N79-16527

ZAVALOVA, N. D. Experimental and psychological investigations in aviation and astronautics p0041 A79-13998

ZAWACKI, B. E. Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis [NASA-CR-162103] p0279 N79-30922

ZEE, D. S. Pursuit after-nystagmus p0271 A79-49484

ZEEVI, Y. Y. Latency of peripheral saccades p0278 A79-50987

ZEITLIN, L. R. Conjoint effect of physical stress and noise stress on information processing performance and cardiac response p0161 A79-29715

ZELIGMAN, V. S. Changes in human renal function in passive head-up and head-down positions p0072 N79-14722

ZELLER, A. F. Three decades of USAF efforts to reduce human error accidents, 1947-1977 p0290 N79-31943

ZEMAN, W. Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798

ZEMIN, V. P. Compensatory reactions of the kidneys to orthostatic factors p0015 N79-10708

ZENOBI, T. J. Design considerations for inflatable head/neck restraint systems p0043 A79-14407

ZERMUEHLEN, R. O. Computer aided control of a mechanical arm p0275 A79-50334

ZHELTOV, G. I. Thermal effects during the exposure of ocular fundus tissues to laser radiation p0234 A79-43057

ZHERNAKOV, A. P. Evaluation of circulatory reactions in the head to antorthostatic position p0245 N79-27832

ZHIGAILO, T. L. Individual differences in hypoxic responses at high altitudes p0159 A79-28738

ZHILINA, G. E. Functional changes in the cardiovascular system of machine-tool operators under physical and neurologically stressful loads p0160 A79-29270

ZHILIS, B. G. Effect of acute hypoxia on some parameters of renal excretory function and renal hemodynamics p0245 N79-27828

ZHVALIKOVSKAIA, V. P. Biological experiments carried out aboard the biological satellite Cosmos-936 p0230 A79-41717

ZHVALIKOVSKAYA, V. P. Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711

ZIANE, D. A description of the recent neuropsychological selection of pilots for land forces light aircraft p0151 N79-19633

ZINCHENKO, T. P. Visual information processing p0076 N79-14747

ZINCHENKO, V. P. Physiologicohygienic and ergonomic aspects of Salut 6 cosmonauts extravehicular activity /EVA/ p0303 A79-53486

ZIPPLER, D. B. Improved airline-type supplied-air plastic suit [DPSPU-78-30-12] p0282 N79-30943

ZLATKIS, A. Early detection of disease: The correlation of the volatile organic profiles from patients with upper respiratory infections with subjects of normal profiles [NASA-CR-160100] p0121 N79-17532

ZOLLARS, G. P. Stress factors on pilot performance. Citations from the International Aerospace Abstracts data base [NTIS/PS-79/0506/0] p0260 N79-28878

ZON, J. R. A hypothesis of plasmonic absorption of RF energy by biological objects p0233 A79-42506

ZORILE, V. I. Effects of vestibular stimuli on the electrical activity of muscles p0187 A79-35121

ZOZULIAKOVA, S. V. Epiphysis of rats under the combined action of hypoxia, hypercapnia and cooling p0256 A79-46680

ZRENNER, E. Enhancement of luminance flicker by color-opponent mechanisms p0252 A79-44582

ZUCKER, R. S. The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator [RS-GMR-2394] p0115 N79-17484

ZUKHBAYA, T. M. Effects of long-term and chronic radiation on

- hemopoiesis p0016 N79-10719
- ZUMOFF, B.
Comparison of plasma and urinary steroids in men
with type A and type B behavior patterns p0028 N79-11704
- ZWICK, H.
Low level laser light effects p0138 A79-28171
- ZWIEBEL, W.
Real-time computerized fluoroscopic cardiac imaging p0294 A79-51035
- ZYBIN, O. K.
Effect of brief head-down hypokinesia on pressure
in various parts of the healthy man's
cardiovascular system p0245 N79-27831
- ZYBIN, O. KH.
Central and cerebral hemodynamics and metabolism
of the healthy man during head-down tilting p0127 A79-24634
- ZYKOV, P. M.
Ultrasonic doppler directional blood flow velocity
meter [RAE-LIB-TRANS-1918] p0279 N79-30920

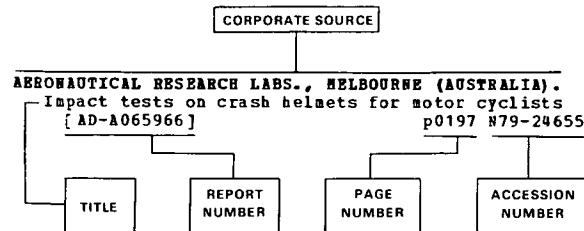
CORPORATE SOURCE INDEX

AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography

JANUARY 1980

1979 Cumulative Index

Typical Corporate Source Index Listing



Listings in this index are arranged alphabetically by corporate source. The title of the document provides the user with a brief description of the subject matter. The report number helps to indicate the type of document listed (e.g., NASA report, translation, NASA contractor report). The page and accession numbers are located beneath and to the right of the title, e.g. p 0197 N79-24655. Under any corporate source the accession numbers are arranged in sequence with the IAA accession numbers appearing first.

A

- ACADEMISCH ZIEKENHUIS ST. RAPHAEL, LEUVEN (BELGIUM).**
Follow-up and transversal study of vital capacity and FEV sub values among personnel of the Belgian Army forces p0028 N79-11706
- ACADEMY OF SCIENCES (USSR), BOROK.**
Proceedings of the first and second USA-USSR Symposia on the Effects of Pollutants upon aquatic ecosystems. Volume 1: USA Symposium. Volume 2: USSR Symposium [PB-287219/0] p0112 N79-16546
- ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT, NEUILLY-SUR-SEINE (FRANCE).**
Optimisation of pilot capability and avionic system design [AGARD-AR-118] p0113 N79-16560
Optimisation of pilot capability and avionic system design, introduction p0113 N79-16561
Human capabilities p0114 N79-16562
Systems design p0114 N79-16563
Pilot workload qualification for avionics design p0114 N79-16564
Training implications p0114 N79-16565
The design of air combat aircraft p0114 N79-16566
Ground attack p0114 N79-16567
The Helicopter p0114 N79-16568
Survival and protection of aircrew in the event of accidental immersion in cold water [AGARD-AG-211(ENG)] p0196 N79-23661
Models and Analogues for the Evaluation of Human Biodynamic Response, Performance and Protection [AGARD-CP-253] p0284 N79-31901
Contributions of psychophysiological techniques to aircraft design and other operational problems [AGARD-AG-244] p0290 N79-31941
Human Factors Aspects of Aircraft Accidents and Incidents [AGARD-CP-254] p0290 N79-31942
ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT, PARIS (FRANCE).
Prospective Medicine Opportunities in Aerospace medicine [AGARD-CP-231] p0026 N79-11692

- Specific Findings in Cardiology and Pulmonary Function with Special Emphasis on Assessment criteria for Flying [AGARD-CP-232] p0028 N79-11705
Operational Helicopter Aviation Medicine [AGARD-CP-255] p0148 N79-19605
Evaluation of aircrew fatigue during operational helicopter flight mission p0149 N79-19622
Technical evaluation report on the Aerospace Medical Panel London Specialists' Meeting, Fall 1977 [AGARD-AR-1311] p0171 N79-20729
- AEROJET LIQUID ROCKET CO., SACRAMENTO, CALIF.**
Development of an electrical energy converter for driving left heart assist blood pumps [PB-293510/4] p0241 N79-26780
- AERONAUTICAL RESEARCH LABS., MELBOURNE (AUSTRALIA).**
Impact tests on crash helmets for motor cyclists [AD-A065966] p0197 N79-24655
Cold water survival suits for aircrew [ARL/SYS-NOTE-56] p0261 N79-28882
- AERONAUTICAL SYSTEMS DIV., WRIGHT-PATTERSON AFB, OHIO.**
Study of crew task loading on the C-141A aircraft [AD-A057346] p0034 N79-11746
- AEROSPACE MEDICAL DIV. AEROSPACE MEDICAL RESEARCH LABS. (6570TH), WRIGHT-PATTERSON AFB, OHIO.**
Evaluation of cardiac risk and subject response to ameliorative efforts p0031 N79-11723
- AEROSPACE MEDICAL RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO.**
Reach capability of men and women: A three-dimensional analysis [AD-A060312] p0081 N79-14779
The behavior of observers in detecting unbriefed targets at different aircraft speeds with side-looking radar [AD-A060908] p0085 N79-15586
AAA gunnermodel based on observer theory p0087 N79-15594
Two dimensional eye tracking: Sampling rate of forcing function p0090 N79-15617
Head tracking at large angles from the straight ahead position p0090 N79-15618
A method motion simulator design based on modeling characteristics of the human operator p0091 N79-15623
A relationship between eye movement patterns and performance in a precognitive tracking task p0116 N79-17490
Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
Effects of propellant hydrazines on red blood cells: Methemoglobin and Heinz body formation [AD-A064133] p0189 N79-22755
A subhuman primate restraint system [AD-A069607] p0279 N79-30915
Prediction of whole-body response to impact forces in flight environments p0284 N79-31902
Correlation of mechanism of extremity injury and aerodynamic factors in ejections from F-4 aircraft p0284 N79-31904
Application of biodynamic models to the analysis of F-16 canopy birdstrike p0285 N79-31911
The validation of biodynamic models p0286 N79-31914

AIR FORCE FLIGHT DYNAMICS LAB.,

CORPORATE SOURCE INDEX

- Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles p0286 N79-31917
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- Combined discrete network: Continuous control modeling of man-machine systems [AD-A071574] p0310 N79-32842
- AIR FORCE FLIGHT DYNAMICS LAB., WRIGHT-PATTERSON AFB, OHIO.
- Flight experience with manually controlled unconventional aircraft motions p0088 N79-15602
- A head-up display for mid-air drone recovery p0090 N79-15615
- An approach to the multi-axis problem in manual control p0115 N79-17482
- An adaptive controller which displays human operator limitations for a fighter type aircraft [AD-A066193] p0223 N79-25763
- AIR FORCE HUMAN RESOURCES LAB., BROOKS AFB, TEX.
- Compensation for transport delays produced by computer image generation systems [AD-A056720] p0019 N79-10738
- Methodology to assess psychological stress and its impact in the air combat environment [AD-A053474] p0057 N79-13707
- Survey of human operator modeling techniques for measurement applications [AD-A058327] p0058 N79-13713
- Subjective motion discrimination in the simulator for air-to-air combat [AD-A059742] p0079 N79-14770
- Air-to-air combat skills: Contribution of platform motion to inertial training [AD-A062738] p0173 N79-20743
- Air Force female pilots program: Initial performance and attitudes [AD-A056411] p0241 N79-26783
- Advanced training features: Bridging the gap between in-flight and simulator-based models of flying training [AD-A068142] p0289 N79-31934
- Pilot performance in simulated aerial refueling as a function of tanker model complexity and visual display field-of-view [AD-A070231] p0308 N79-32832
- Undergraduate pilot training: Visual discrimination pretraining for land task [AD-A068141] p0317 N79-33844
- AIR FORCE INSPECTION AND SAFETY CENTER, NORTON AFB, CALIF.
- Three decades of USAF efforts to reduce human error accidents, 1947-1977 p0290 N79-31943
- AIR FORCE INST. OF TECH., WRIGHT-PATTERSON AFB, OHIO.
- Aircrew inflight physiological data acquisition system 2 [AD-A055638] p0055 N79-13690
- The impact of a Learn-Forget-Learn (LFL) curve and learning curves on a system effectiveness model [AD-A061622] p0124 N79-17550
- Estimation of aircraft target motion using pattern recognition orientation measurements p0177 N79-21764
- An adaptive controller which displays human operator limitations for a fighter type aircraft p0177 N79-21767
- Contrast sensitivity of the human visual system at one luminance level while adapted to a stimulus at another luminance level [AD-A064370] p0190 N79-22759
- Aircrew modularized inflight data acquisition system [AD-A064725] p0190 N79-22766
- Application of learning curves of aircraft produced at more than one location to the F-16 lightweight fighter [AD-A065881] p0196 N79-23664
- AIR FORCE MEDICAL CENTER, WRIGHT-PATTERSON AFB, OHIO.
- Prospective medicine opportunities in aerospace medicine p0171 N79-20730
- AIRESEARCH MFG. CO., PHOENIX, ARIZ.
- SAINT: A combined simulation language for modeling man-machine systems p0317 N79-33842
- ALABAMA A & M UNIV., NORMAL.
- Preparation of guinea pig macrophage for electrophoretic experiments in space [NASA-CR-158777] p0243 N79-27814
- ALABAMA UNIV. IN BIRMINGHAM.
- The effect of 17alpha-ethynodiol on the radiation sensitivity of mice p0141 N79-18557
- ALBERT EINSTEIN COLL. OF MEDICINE, NEW YORK.
- Morphological and biochemical effects of oxygen toxicity [AD-A056778] p0018 N79-10734
- ALLEN CORP. OF AMERICA, ALEXANDRIA, VA.
- F-4J/N instructional system development: Phase 1 [AD-A061098] p0156 N79-19684
- ANALYTIC SCIENCES CORP., READING, MASS.
- Prediction of pilot-aircraft stability boundaries and performance contours p0118 N79-17507
- ANALYTICS, INC., WILLOW GROVE, PA.
- Visual performance modeling in the human operator simulator p0317 N79-33840
- ANTHROPOLOGY RESEARCH PROJECT, YELLOW SPRINGS, OHIO.
- Guidelines for fit testing and evaluation of USAF personal-protective clothing and equipment [AD-A065901] p0197 N79-23668
- Analysis of body size measurements for US Navy women's clothing and pattern design [AD-A068600] p0290 N79-31939
- APPLIED PSYCHOLOGICAL SERVICES, WAYNE, PA.
- A survey of Applied Psychological Services' models of the human operator p0317 N79-33839
- ARGONNE NATIONAL LAB., ILL.
- Cell biology basis for the life of an organism in the radiation field [ANL-TRANS-1152] p0261 N79-29786
- ARIZONA STATE UNIV., TEMPE.
- Stress and simulation in pilot training [AD-A066670] p0222 N79-25757
- ARIZONA UNIV., TUCSON.
- Adaptive supervisory control of remote manipulation p0046 A79-14987
- Developing closed life support systems for large space habitats [AAS PAPER 78-145] p0099 A79-21260
- Portable device for detection of petit mal epilepsy p0254 A79-46226
- Stress management: A comparison of educational, aerobic and autosuggestive approaches p0260 N79-28875
- ARKANSAS UNIV. FOR MEDICAL SCIENCES, LITTLE ROCK.
- Molecular absorption of non-ionizing radiation in biological systems p0082 N79-15553
- ARMY AEROMEDICAL RESEARCH LAB., FORT RUCKER, ALA.
- Left Anterior Hemiblock (LA): Diagnosis and aeromedical risk p0029 N79-11715
- An evaluation of perceptual-motor workload during a helicopter hover maneuver [AD-A058016] p0052 N79-12709
- The effect of Nap-of-the-Earth (NOE) helicopter flying on pilot blood and urine biochemicals [AD-A055204] p0055 N79-13693
- The interaction of carbon monoxide and altitude on aviator performance: Pathophysiology of exposure to carbon monoxide [AD-A055212] p0056 N79-13694
- Contrast sensitivity of the human eye to various display phosphor types [AD-A058383] p0056 N79-13695
- An evaluation of the effects of a stability augmentation system upon aviator performance/workload during a MEDEVAC high hover operation p0148 N79-19612
- In-flight toxicology of fixed and rotary wing aircraft crew stations p0149 N79-19619
- Changes in the rotary wing aviator's ability to perform an uncommon low altitude rearward

- hover maneuver as a function of extended flight requirements and aviator fatigue p0150 N79-19623
- Visual performance/workload of helicopter pilots during instrument flight p0152 N79-19640
- The effective acoustic environment of helicopter crewmen p0152 N79-19645
- Operational consideration of AN/PVS-5 night vision goggles for helicopter night flight p0152 N79-19649
- Training requirements for helicopter operation with night vision goggles p0153 N79-19650
- Head aiming/tracking accuracy in a helicopter environment p0153 N79-19651
- Aviator visual performance: A comparative study of a helicopter simulator and the OH-1 helicopter p0153 N79-19652
- US Army aviation fatigue-related accidents, 1971-1977 [AD-A062486] p0171 N79-20725
- A porcine bioassay study of the physiological effects of fiber and dye degradation products (PDP) on burn wound healing [AD-A066990] N79-25748
- Evaluation of four thermally protective fabrics using the USAARL bioassay method [AD-A067351] p0223 N79-25762
- Mathematical models of skin burns induced by simulated postcrash fires as aids in thermal protective clothing design and selection [AD-A066946] p0223 N79-25766
- Correlation of head injury with mechanical forces based on helmet damage duplication p0287 N79-31920
- The use of mathematical modeling in crashworthy helicopter seating systems p0287 N79-31923
- ARMY AEROMEDICAL RESEARCH UNIT, FORT RUCKER, ALA.**
- Oculomotor performance of aviators during an autorotation maneuver in a helicopter simulator p0151 N79-19638
- ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND, FORT EUSTIS, VA.**
- The use of mathematical modeling in crashworthy helicopter seating systems p0287 N79-31923
- ARMY COLD REGIONS TEST CENTER, FORT GREENE, ARK.**
- Man and materiel in the cold regions, part 1 [AD-A063752] p0178 N79-21771
- ARMY COMMUNICATIONS RESEARCH AND DEVELOPMENT COMMAND, FORT MONMOUTH, N. J.**
- Modeling and analysis of man-machine interface information [AD-A063515] p0178 N79-21772
- ARMY CONSTRUCTION ENGINEERING RESEARCH LAB., CHAMPAIGN, ILL.**
- Establishing habitability factors for the design of office environments [AD-A056463] p0020 N79-10744
- ARMY ELECTRONICS COMMAND, FORT BELVOIR, VA.**
- A behavioral model of target acquisition in realistic terrain [AD-A056760] p0019 N79-10742
- ARMY ELECTRONICS COMMAND, FORT MONMOUTH, N. J.**
- The effect of active area on the legibility of dot matrix displays [AD-A058014] p0052 N79-12708
- Radar observation of insects: Mosquitoes p0148 N79-19600
- ARMY ENVIRONMENTAL HYGIENE AGENCY, ABERDEEN PROVING GROUND, MD.**
- Nonionizing radiation protection special study: Infrared radiation hazard evaluation of the rotary forge, Watervliet Arsenal, Watervliet, New York, March - April 1978 [AD-A055643] p0055 N79-13691
- ARMY MEDICAL RESEARCH INST. OF INFECTIOUS DISEASES, FREDERICK, MD.**
- The effect of ultrasound on botulin toxin [AD-A059544] p0142 N79-18566
- ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND, MASS.**
- United States Army anthropometry: 1946-1977 [AD-A068095] p0289 N79-31938
- ARMY RESEARCH INST. FOR THE BEHAVIORAL AND SOCIAL SCIENCES, ALEXANDRIA, VA.**
- A methodology for conducting human factors evaluations of vehicles in operational field tests [AD-A061808] p0157 N79-19691
- ARMY RESEARCH INST. OF ENVIRONMENTAL MEDICINE, NATICK, MASS.**
- A comparison of the physiological responses in young men and women to heat and cold stress [AD-A061024] p0155 N79-19679
- Instrumentation and techniques for the measurement of muscular strength and endurance in the human body [AD-A061023] p0155 N79-19681
- Evidence for increased intrathoracic fluid volume in man at high altitude [AD-A065333] p0220 N79-25743
- Physiological effects of a military training program on males and females [AD-A062936] p0220 N79-25744
- The effects of dehydration on peripheral cooling [AD-A065332] p0220 N79-25745
- Composition of cerebral fluids in goats adapted to high altitude [AD-A070142] p0310 N79-33788
- Optimal methods for physiologic research on clothing [AD-A071855] p0319 N79-33852
- ATLANTIC RICHFIELD CO., HARVEY, ILL.**
- Energy supply and demand in California p0242 N79-27603

B

- BALTIMORE CITY HOSPITALS, MD.**
- Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
- BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH.**
- The use of Na-22 as a tracer for long-term bone mineral turnover studies. p0265 A79-47327
- Determination of muscle mass changes in legs from K-40 measurements p0274 A79-49997
- Pacific Northwest Laboratory report for 1977 to the DOE assistant secretary for environment. Part 2: Ecological sciences [PNL-2500-PT-2] p0053 N79-13677
- Kinetic measurements of bone mineral metabolism: The use of Na-22 as a tracer for long-term bone mineral turnover studies [NASA-CR-151868] p0111 N79-16544
- Review of unfolding methods used in the US and their standardization for dosimetry [BNWL-SA-6503] p0307 N79-32828
- BELGIAN AIR FORCE, BRUSSELS.**
- Analysis of the intervention of the human factor as a principal cause or influence in accidents of Mirage aircraft in the Belgian Air Force p0290 N79-31945
- BOEING CO., HOUSTON, TEX.**
- Test evaluation of space station ECLSS maintenance concepts [ASME PAPER 78-ENAS-43] p0009 A79-12589
- BOEING CO., SEATTLE, WASH.**
- The effects of pilot age, lighting, and head-down time on visual accommodation [AD-A064912] N79-25747
- BOLT, BERANEK, AND NEWMAN, INC., CAMBRIDGE, MASS.**
- A model for the pilot's use of roll-axis motion cues in steady-state tracking tasks [AD-A059504] p0079 N79-14772
- Closed loop models for analyzing the effects of simulator characteristics p0087 N79-15598
- Evaluation of display and control concepts for a terminal configured vehicle in final approach in a windshear environment p0090 N79-15616
- Use of the tilt cue in a simulated heading tracking task p0091 N79-15621
- Combined monitoring, decision and control model for the human operator in a command and control desk p0092 N79-15631

- The effects of deviate internal representations in the optimal model of the human operator p0114 N79-17477
- Use of the optimal control model in the design of motion cue experiments p0118 N79-17510
- A model for the pilot's use of motion cues in roll-axis tracking tasks p0118 N79-17512
- Motion cue models for pilot-vehicle analysis [AD-A061477] p0125 N79-17561
- A decision, monitoring and control model of the human operator applied to an RPV control problem [AD-A069880] p0282 N79-30939
- Development of human performance models for man-machine system simulation [AD-A069879] p0282 N79-30940
- The application of control theory to the investigation of roll motion effects on human operator performance p0288 N79-31931
- A brief overview of the theory and application of the optimal control model of the human operator p0317 N79-33841
- BOSTON UNIV., MASS.**
- A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem p0132 A79-26373
- An ultraviolet light induced bacteriophage in Benecke gazogenes p0254 A79-46463
- Air traffic controller health change study [FAA-AM-78-39] p0122 N79-17534
- BOWLING GREEN STATE UNIV., OHIO.**
- Effects of filtering electroencephalic signals on auditory evoked brain stem responses p0176 N79-21758
- BRANDEIS UNIV., WALTHAM, MASS.**
- Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements p0135 A79-27558
- Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
- Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness p0165 A79-30662
- BRIGHAM YOUNG UNIV., PROVO, UTAH.**
- Cardiac adaptation to endurance training: Determined by echocardiography and electrocardiography p0194 N79-23648
- BRISTOL UNIV. (ENGLAND).**
- A biogeochemical study of the Abu Dhabi algal mats - A simplified ecosystem p0132 A79-26373
- BRITISH AEROSPACE DYNAMICS GROUP, BRISTOL (ENGLAND).**
- Visual effects of helicopter maneuvre on weapon aiming performance p0150 N79-19626
- BRITISH LIBRARY LENDING DIV., BOSTON SPA (ENGLAND).**
- The lymph nodes and lymph vessels of the white rat [BLL-RTS-11309] p0141 N79-18554
- A photometer for determining the biomass of microorgan from the ATP content [BLL-RTS-11456] p0141 N79-18555
- The utilisation of organic compounds by purple bacteria in the presence of light [BLL-RTS-11213] p0141 N79-18556
- Clozapine metabolism in humans [BLL-RTS-10902] p0142 N79-18567
- Crawford and Lavoisier on the method of development and place of formation of body heat [BLL-RTS-11228] p0142 N79-18568
- Risks from various products used in paint spraying [BLL-RTS-11499] p0142 N79-18569
- Allergy to lanolin [BLL-RTS-11185] p0142 N79-18570
- Official method for determining ocular irritation [BLL-RTS-11221] p0142 N79-18571
- Information on the comparative physiology of digestive enzymes [BLL-RTS-11203] p0142 N79-18572
- The dangerous relation between sunburn and skin cancer
- [BLL-RTS-11310] p0142 N79-18573
- Solar radiation, light protection and tanning of human skin [BLL-RTS-11580] p0142 N79-18574
- Method and arrangement for the preparation of solid foodstuffs for long-term storage [BLL-RTS-11445] p0145 N79-18590
- Physical and mental working environment in a terminal based computer system [BLL-RTS-11634] p0197 N79-23665
- Uncommon hypersensitivity to contacting cold water and cold air with propagated reflex-like erythema development [BLL-RTS-11644] p0279 N79-30917
- Possibility of improving assessment of cardio-pulmonary function by submaximal exercise on a bicycle ergometer [BLL-RTS-11657] p0279 N79-30918
- BUNDESWEHRSANITAETSZENTRUM, HAMBURG (WEST GERMANY).**
- Standardized examination methods in ergometry p0029 N79-11710
- BUREAU OF RADIOLOGICAL HEALTH, ROCKVILLE, MD.**
- Electromagnetic fields in biological media. Part 1: Dosimetry - a primer on bioelectromagnetics [PB-285793/6] p0078 N79-14759
- The Physical Basis of Electromagnetic Interactions with Biological Systems [HEW-PUB-FDA-78-8055] p0081 N79-15551
- Some considerations of hazards in the use of lasers for artistic displays [PB-294513/7] p0281 N79-30931

C

- CAE ELECTRONICS LTD., MONTREAL (QUEBEC).**
- Manned simulations of the SRMS in SIMFAC p0089 N79-15611
- Multi-axis hand controller for the shuttle remote manipulator system p0117 N79-17503
- CALIFORNIA INST. OF TECH., PASADENA.**
- Stereo 3-D perception for a robot p0019 N79-10740
- A molecular description of oxygen binding to hemoglobin p0194 N79-23646
- Methods for localization of electrical sources in the human brain and applications to the visual system p0314 N79-33815
- CALIFORNIA STATE AIR RESOURCES BOARD, SACRAMENTO.**
- Human health damages from mobile source air pollution: A delphi method, volume 1 [PB-288319/7] p0145 N79-18585
- Human health damages from mobile source air pollution: Additional Delphi data analysis, volume 2 [PB-288320/5] p0145 N79-18586
- CALIFORNIA STATE UNIV., FULLERTON.**
- Temperature-dependent morphological changes in membranes of *Bacillus stearothermophilus* p0005 A79-12475
- CALIFORNIA STATE UNIV., HAYWARD.**
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man p0235 A79-43208
- CALIFORNIA UNIV., BERKELEY.**
- Organic geochemical studies on kerogen precursors in recently deposited algal mats p0001 A79-10419
- The augmentation algorithm and molecular phylogenetic trees p0070 A79-20267
- Beta-galactosidase and selective neutrality p0132 A79-26169
- Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713
- An extension of the quickened display for manual control p0086 N79-15591
- Biological effects of laser irradiation on nerve cells p0247 N79-27840
- CALIFORNIA UNIV., BERKELEY. LAWRENCE BERKELEY LAB.**
- Development and application of resistive pulse

CORPORATE SOURCE INDEX

CENTRAAL INSTITUUT VOOR VOEDINGSONDERZOEK TWO,

- spectroscopy: Studies on the size, form and deformability of red blood cells [LBL-8640] p0280 N79-30924
- Effects on populations of exposure to low levels of ionizing radiation: Implications for nuclear energy and medical radiation [LBL-9084] p0316 N79-33833
- Health effects of low-level ionizing radiation [LBL-9018] p0316 N79-33834
- CALIFORNIA UNIV., DAVIS.**
- Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
- Response of the rat erythrocyte to ozone exposure p0067 A79-18963
- RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
- Thermoregulation in unrestrained rats during and after exposure to 1.5-4 G p0227 A79-41185
- Influence of the ambient acceleration field upon acute acceleration tolerance in chickens p0230 A79-41715
- Nonshivering thermogenesis in normal and dystrophic muscle p0054 N79-13680
- Enhancing biological production of ammonia from atmospheric nitrogen and soil nitrate [PB-286515/2] p0083 N79-15571
- CALIFORNIA UNIV., IRVINE.**
- Algal growth under multiple nutrient limiting conditions p0013 N79-10692
- Regulation of the carbon dioxide tension in arterial blood during inhalation of carbon dioxide in birds and mammals p0169 N79-20713
- Acute toxicity of a number of chemicals of interest to the Air Force [AD-A067313] p0220 N79-25742
- Toxicity of high density jet fuel components [AD-A068596] p0259 N79-28870
- Direct exposure of monolayers of mammalian cells to airborne pollutants in a unique culture system [AD-A069822] p0283 N79-31897
- CALIFORNIA UNIV., LA JOLLA.**
- Distribution of pulmonary ventilation and perfusion during short periods of weightlessness p0068 A79-18967
- Radiographic comparison of human lung shape during normal gravity and weightlessness p0305 A79-54269
- CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB.**
- New developments in ultrasonic imaging of the chest and other body organs [UCRL-80340-REV-1] p0018 N79-10735
- Quantitative review of human susceptibility to magnetic fields [UCID-17773] p0026 N79-11691
- CALIFORNIA UNIV., LOS ANGELES.**
- Effect of ultrasonic irradiation on mammalian cells and chromosomes *in vitro* p0134 A79-27239
- Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors p0274 A79-50230
- Possible mechanisms of weak electromagnetic field coupling in brain tissue p0082 N79-15555
- A correlation of the effects of cationic uncouplers on intact cardiac muscle and on calcium bound to isolated cardiac muscle plasma membranes p0111 N79-16540
- CALIFORNIA UNIV., RIVERSIDE.**
- The impact of sulfur dioxide on vegetation: A sulfur dioxide-ozone response model [PB-283604/7] p0049 N79-12686
- The effects of ozone on human erythrocytes and phospholipid vesicles p0049 N79-12687
- Short-range movement of major agricultural pests p0148 N79-19594
- CALIFORNIA UNIV., SAN FRANCISCO.**
- Functional connections of the central auditory nervous system: Thalamocortical corticothalamic and corticotectal connections of the AI, AII and AAF auditory cortical fields p0246 N79-27839
- CALIFORNIA UNIV., SANTA BARBARA.**
- Modeling of visual-vestibular interaction and the fast components of nystagmus p0050 N79-12692
- CALIFORNIA UNIV., SANTA CRUZ.**
- Effects of sleep at altered ambient temperatures on electrophysiological sleep and thermoregulatory mechanisms in human subjects and in the ground squirrel (*Citellus lateralis*) p0216 N79-25709
- CALIFORNIA UNIV. AT BERKELEY.**
- Molecular phylogenetic trees - On the validity of the Goodman-Moore augmentation algorithm p0253 A79-45645
- CALIFORNIA UNIV. AT SAN FRANCISCO.**
- Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 1: Endochondral osteogenesis; medullary bone turnover p0022 N79-11665
- Histological studies on tibial bone of rats in the 1975 COSMOS-782 flight. Part 2: Microradiographic study of cortical bone p0022 N79-11666
- Mineralization in teeth and jaws, as judged radiographically, in rats of the COSMOS-782 experiment p0022 N79-11667
- CALSPAN CORP., BUFFALO, N. Y.**
- Retention and transfer of training on a procedural task interaction of training strategy and cognitive style [AD-A058966] p0052 N79-12704
- Performance evaluation of test dummies with flesh parts produced with substitute foaming compounds [PB-289951/6] p0179 N79-21776
- CANADA INST. FOR SCIENTIFIC AND TECHNICAL INFORMATION, OTTAWA (ONTARIO).**
- Gel-electrophoresis studies for the taxonomic characterization of soil microorganisms [NEC/CNR-TT-1924] p0120 N79-17521
- CANYON RESEARCH GROUP, INC., WESTLAKE VILLAGE, CALIF.**
- Development of an objective grading system along with procedures and aids for its effective implementation in flight [AD-A071106] p0318 N79-33846
- CARNEGIE-MELLON UNIV., PITTSBURGH, PA.**
- Calcium regulation in smooth muscle: Isolation and characterization of the myosin light chain kinase p0024 N79-11680
- Application of pattern recognition to ultrasonic tissue characterization p0194 N79-23647
- CASE WESTERN RESERVE UNIV., CLEVELAND, OHIO.**
- Single frequency RF powered ECG telemetry system p0131 A79-26074
- Synchronous brain evoked potential correlates of directed attention in humans p0110 N79-16537
- A discrete parameter model of the head and neck with neuromuscular feedback p0211 N79-24627
- CATHOLIC UNIV. OF AMERICA, WASHINGTON, D. C.**
- Two approaches to category representation in aural classification [AD-A066705] N79-25754
- Predicting individual listener confusions in the classification of complex, steady-state sounds [AD-A066704] p0222 N79-25755
- Classification of amplitude-modulated noise patterns with extended practice [AD-A066703] p0222 N79-25756
- A comparison of verbal and visual imagery learning strategies: Their importance for instrumental technology [AD-A069983] p0308 N79-32833
- CENTER FOR BLOOD RESEARCH, BOSTON, MASS.**
- Temperature effects on shape and function of human granulocytes [AD-A063750] p0189 N79-22757
- CENTRAAL INSTITUUT VOOR VOEDINGSONDERZOEK TWO, ZEIST (NETHERLANDS).**
- Physiological effects of a high soybean protein

- diet in man p0240 N79-26777
CENTRE D'ESSAIS EN VOL, BRETIGNY-SUR-ORGE (FRANCE).
 Detection and supervision of obstructed respiratory flow in fliers. Advantages of debit-volume graphs p0028 N79-11707
 Tentative estimation of the injuries likely to occur during the crash of a SA 341 Gazelle helicopter, from a study on mannequins p0287 N79-31925
CENTRE D'ETUDES ET DE RECHERCHES, TOULON (FRANCE).
 A description of the recent neuropsychological selection of pilots for land forces light aircraft p0151 N79-19633
CENTRE DE MEDECINE AERONAUTIQUE, BRUSSELS (BELGIUM).
 Follow-up and transversal study of vital capacity and FEV sub values among personnel of the Belgian Army forces p0028 N79-11706
CENTRE DE RECHERCHES DE MEDECINE AERONAUTIQUE, PARIS (FRANCE).
 Providing an eye separator on a color cathode tube p0152 N79-19639
CENTRE FOR OVERSEAS PEST RESEARCH, LONDON (ENGLAND).
 Possible impact of radar on pest management operations p0148 N79-19599
CENTRE PRINCIPAL D'EXPERTISES MEDICALES DU PERSONNEL NAVIGANT, PARIS (FRANCE).
 Difficulties posed by left axis deviation in the evaluation of fliers, and their relations to the concept of left anterior hemiblock p0029 N79-11714
 Measuring systolic time intervals at rest and under stress by external methods. Advantages in the evaluation of fliers p0030 N79-11717
CENTRO DI STUDI E RICERCHE DI MEDICINA AERONAUTICA E SPAZIALE, ROME (ITALY).
 Normal and pathological cardiovascular findings in applicants to the Air Force service p0031 N79-11722
 The information in aircraft accidents investigation p0291 N79-31947
CHEMICAL LAB. RVO-TNO, RIJSWIJK (NETHERLANDS).
 Binding of biologically active agents to plasma proteins [CL-1977-22] p0261 N79-29787
CINCINNATI UNIV., OHIO.
 Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582
 Multibody dynamics including translation between the bodies, with application to head-neck systems [AD-A062114] p0174 N79-20747
 Knee flail design limits: Background, experimentation and design criteria [AD-A062384] p0220 N79-25746
CITY UNIV., LONDON (ENGLAND).
 The human micro-environment p0248 N79-27851
CIVIL AEROMEDICAL INST., OKLAHOMA CITY, OKLA.
 The morbidity experience of air traffic control personnel, 1967-1977 [AD-A056053] p0051 N79-12696
 Reactions of methamidophos with mammalian cholinesterases [AD-A058683/4] p0051 N79-12698
 Visual performance assessment through clear and sunscreen-treated windows [AD-A059750] p0080 N79-14775
 Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. Volume 1: Design considerations and research protocol [AD-A059412] p0084 N79-15577
 A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings [FAA-AM-78-37] p0123 N79-17547
 The measurement and scaling of workload in complex performance [FAA-AM-78-34] p0125 N79-17558
 Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later [FAA-AM-78-40] p0144 N79-18581
 Characteristics of medically disqualify airman applicants in calendar years 1975 and 1976 [FAA-AM-78-25] p0144 N79-18582
 Time-sharing ability in complex performance: An expanded replication [FAA-AM-78-33] p0145 N79-18591
 A comparison of three models for determining test fairness [AD-A066586] N79-25751
 The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection [FAA-AM-78-36] N79-25752
 Index to FAA Office of Aviation Medicine reports: 1961 through 1978 [AD-A067983] p0240 N79-26773
 The optical properties of smoke-protective devices [FAA-AM-78-41] p0242 N79-26784
 A lower body negative pressure box for +Gz simulation in the upright seated position [AD-A069326] p0259 N79-28868
 The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices [AD-A068581] p0281 N79-30932
 A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel [AD-A067826] p0281 N79-30933
 Visual search performance during simulated radar observation with and without a sweepline [AD-A068020] p0281 N79-30938
 Effects of propranolol on Time of Useful Function (TOF) in rats [AD-A068535/4] p0283 N79-31896
 Oxygen equipment and rapid decompression studies [AD-A070285] p0289 N79-31937
 Effects of congener and noncongener alcoholic beverages on a clinical ataxia test battery [AD-A069375] p0314 N79-33819
 Laboratory performance during acute intoxication and hangover [AD-A069373] p0314 N79-33820
 Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs [AD-A070299] p0314 N79-33821
CIVIL AVIATION AUTHORITY, LONDON (ENGLAND).
 The impact of coronary vascular risk factors on professional aircrew license loss in the United Kingdom p0031 N79-11724
 Cardiovascular fitness of pilots of transport aircraft p0031 N79-11726
CIVIL SERVICE COMMISSION, WASHINGTON, D.C.
 Some variations on derivations by Primoff and their extensions [PB-287298/4] p0112 N79-16548
CLARKSON COLL. OF TECHNOLOGY, POTSDAM, N.Y.
 Graphic display of human motion [AD-A064344] p0190 N79-22763
COAST GUARD, ALAMEDA, CALIF.
 Observation of night shipboard helicopter operations from a 210 foot US Coast Guard cutter p0151 N79-19637
COLORADO STATE UNIV., FORT COLLINS.
 Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
 Response of crown gall tissue to the space environment: Residual carbohydrates in supporting tissue p0020 N79-11653
 Responses of crown gall tissue to the space environment: Tumor development and anatomy p0020 N79-11654
 Responses of crown gall tissue to the space environment: Glutamine synthetase activity p0020 N79-11655
 Responses to crown gall tissue to the space environment: Isozyme patterns p0020 N79-11656

- Effects of lead on subcellular components in bacteria p0142 N79-18565
- COLORADO UNIV., DENVER. Noninvasive assessment of pulmonary hypertension [PB-285121/0] p0057 N79-13701
- COLUMBIA UNIV., NEW YORK. Applications of two-parameter decision theories in psychology [AD-A059010] p0052 N79-12705
- COMMITTEE ON GOVERNMENT OPERATIONS (U. S. HOUSE). Radiation protection [GPO-35-583] p0283 N79-31899
- COMMITTEE ON SCIENCE AND TECHNOLOGY (U. S. HOUSE). Extraterrestrial intelligence research [GPO-35-355] p0094 N79-15645
- COMPUTER SCIENCES CORP., MOUNTAIN VIEW, CALIF. The effect of a visual/motion display mismatch in a single axis compensatory tracking task p0118 N79-17511
- CONNECTICUT UNIV., STORRS. Effects of uncertainty on manual tracking performance p0086 N79-15592
- Modeling the effects of high-G stress on pilots in a tracking task p0087 N79-15593
- A comparison of motor submodels in the optimal control model p0087 N79-15597
- CORBELL UNIV., ITHACA, N. Y. Embiology and the origin of life [NASA-CR-157988] p0081 N79-14782
- CREW SYSTEMS CONSULTANTS, YELLOW SPRINGS, OHIO. A head-up display for mid-air drone recovery p0090 N79-15615
- D**
- DAYTON UNIV. RESEARCH INST., OHIO. Editing procedure for anthropometric survey data [AD-A060393] p0093 N79-15639
- A real-world assessment of noise exposure [AD-A061692] p0155 N79-19680
- Photometric methods for the analysis of human kinematic responses to impact environments [AD-A062006] p0157 N79-19690
- Procedures used to generate input data sets for the articulated total body model from anthropometric data p0284 N79-31903
- DEFENCE AND CIVIL INST. OF ENVIRONMENTAL MEDICINE, DOWNSVIEW (ONTARIO). A human engineering specification for legibility of alphanumeric symbology on video monitor displays [AD-A064960] p0197 N79-23667
- The relationship between aerobic fitness and cardiovascular risk factors in the Canadian forces [AD-A069865] p0316 N79-33829
- DEFENCE RESEARCH ESTABLISHMENT, OTTAWA. (ONTARIO). Pattern of heat loss from a subject wearing CP temperate-climate combat clothing [AD-A057746] p0093 N79-15636
- Evaluation of British and Canadian conductive rubber heating elements for handwear: Preliminary report [AD-A052826] p0093 N79-15637
- DEFENCE RESEARCH ESTABLISHMENT SUPFIELD, RALSTON (ALBERTA). A general model for the transfer of vapour through clothed skin from liquid on and in clothing [AD-A071577] p0319 N79-33853
- DENVER RESEARCH INST., COLO. Hybridization of biomedical circuitry [NASA-CR-151874] p0111 N79-16543
- DENVER UNIV., COLO. The loudness of tinnitus p0246 N79-27837
- DEPARTMENT OF AGRICULTURE, BELTSVILLE, MD. Strategic and tactical use of movement information in pest management p0148 N79-19597
- DEPARTMENT OF AGRICULTURE, PHOENIX, ARIZ. Selected examples of dispersal of arthropods associated with agricultural crop and animal production
- DEPARTMENT OF ENERGY, WASHINGTON, D. C. Methods for studying and criteria for evaluating the biological effects of electric fields of industrial frequency [CONF-780541-1] p0307 N79-32827
- DESMATICS, INC., STATE COLLEGE, PA. An examination of statistical impact acceleration injury prediction models based on -Gr accelerator data from subhuman primates [AD-A057276] p0026 N79-11690
- Some Bayesian inference procedures for use in developing an impact acceleration injury prediction model [AD-A067228] p0220 N79-25741
- DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, BAD GODESSBERG (WEST GERMANY). Compatibility test of oxygen exposures in the range of 2.2 to 2.8 bar absolute [DLR-FB-78-10] p0280 N79-30925
- The influence of hyperbaric environment in combination with workload and confinement on human information processing [DLR-FB-78-12] p0280 N79-30926
- Personality profiles of divers involved in research activities [DLR-FB-78-11] p0281 N79-30935
- Psychological selection of Spacelab payload specialists: The evaluation of German applicants [DLR-FB-78-29] p0281 N79-30936
- DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, BONN (WEST GERMANY). Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88] p0302 A79-53291
- The response of a realistic computer model for sitting humans to different types of shocks p0288 N79-31927
- DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, BRUNSWICK (WEST GERMANY). A study of pilot/observed interaction in aligning a helicopter with a target [DLR-FB-79-04] p0283 N79-30945
- A method for semi-automatic analysis of eye movements [DLR-MITT-79-02] p0283 N79-30946
- Man, dummy, test vehicle: A comparison of test results for escape systems with the 3 different test methods p0287 N79-31924
- Analyses of midair collisions in German airspace: Methodology and results p0291 N79-31949
- DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, OBERPFAPPENHOFEN (WEST GERMANY). The limited range of the human eye for optical aircraft acquisition p0291 N79-31948
- DREXEL UNIV., PHILADELPHIA, PA. Mechanisms of activated carbon degradation by perspiration [AD-A059872] p0080 N79-14777
- DU PONT DE Nemours (E. I.) AND CO., AIKEN, S. C. Improved airline-type supplied-air plastic suit [DPSU-78-30-12] p0282 N79-30943
- DUKE UNIV., DURHAM, N. C. Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- Noninvasive estimation of bilirubin and hemoglobin oxygen saturation in the skin by reflection spectrophotometry p0054 N79-13684
- Mechanisms of recombination and function of DNA in bacteria [ORO-3941-33] p0072 N79-14715
- Multi-channel stimulation of peripheral nerve trunks p0176 N79-21753
- Electrophysiological determination of retinal sensitivity to color after intense monochromatic light adaptation [AD-A063852] p0189 N79-22756
- DUNLAP AND ASSOCIATES, INC., LA JOLLA, CALIF. A7 training effectiveness through performance analysis

[AD-A056230] p0031 N79-11728
DYNAMIC SCIENCE, PHOENIX, ARIZ.
 Analysis of naval aviation head and neck
 injuries (1969-1978) p0026 N79-11689
 [AD-A057657] Evaluation of occupant protection devices and
 restraint systems [PB-284299/5] p0053 N79-12713
 Test and evaluation of head restraints, seat
 backs, and anchorages in vehicles subjected to
 rear impact collision [PB-289779/1] p0178 N79-21773

E

EMORY UNIV., ATLANTA, GA.
 A tethering system for direct measurement of
 cardiovascular function in the caged baboon
 p0200 A79-36576
ENVIRONMENT CANADA, SAINTE ANNE (QUEBEC).
 Radio tracking of a fin whale /Balaenoptera
 physalus/ p0061 A79-18008
**ENVIRONMENTAL MONITORING AND SUPPORT LAB.,
 CINCINNATI, OHIO.**
 Methods for measuring the acute toxicity of
 effluents to aquatic organisms [PB-289605/8] p0170 N79-20719
 Distribution of phytoplankton in Arkansas lakes [PB-292742/4] p0240 N79-26768
**ENVIRONMENTAL MONITORING AND SUPPORT LAB., LAS
 VEGAS, NEV.**
 Distribution of phytoplankton in North Carolina
 lakes [PB-286387/6] p0084 N79-15573
**ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE
 PARK, N.C.**
 The effects of H₂SO₄ on men and H₂SO₄ and O₃ on
 laboratory animals p0141 N79-18354

ENVIRONMENTAL RESEARCH LAB., DULUTH, MINN.
 Proceedings of the first and second USA-USSR
 Symposia on the Effects of Pollutants upon
 aquatic ecosystems. Volume 1: USA Symposium.
 volume 2: USSR Symposium [PB-287219/0] p0112 N79-16546
EQUITABLE ENVIRONMENTAL HEALTH, INC., ROCKVILLE, MD.
 Feasibility of an epidemiological study of
 workers occupationally exposed to high voltage
 electric fields in the electric power industry
 [EPRI-EA-1020] p0316 N79-33832
ESSEX CORP., HUNTSVILLE, ALA.
 Man/terminal interaction evaluation of computer
 operating system command and control service
 concepts p0064 A79-18224
 Earth orbital teleoperator systems evaluation
 [NASA-CR-150912] p0112 N79-16552
EUREKA LABS., INC., SACRAMENTO, CALIF.
 Human health damages from mobile source air
 pollution: Additional Delphi data analysis,
 volume 2 [PB-288320/5] p0145 N79-18586
**EKOTECH RESEARCH AND ANALYSIS, INC., GAITHERSBURG,
 MD.**
 Planetary protection guidelines for Outer Planet
 missions p0005 A79-12511

F

FEDERAL AVIATION ADMINISTRATION, WASHINGTON, D. C.
 Experience with periodic aviation medical
 examinations p0026 N79-11696
 Psychophysiological effects of aging:
 Developing a functional age index for pilots.
 2: Taxonomy of psychological factors
 [FAA-AM-78-16] p0054 N79-13685
 Psychophysiological effects of aging:
 Developing a functional age index for pilots.
 3: Measurement of pilot performance
 [FAA-AM-78-27] p0123 N79-17546
FEDERAL AVIATION AGENCY, OKLAHOMA CITY, OKLA.
 Visual and optical assessment of gas protective
 face masks p0152 N79-19642
**FLORIDA AGRICULTURAL AND MECHANICAL UNIV.,
 TALLAHASSEE.**

Microbial transformation of nucleosides
 [NASA-CR-158696] p0197 N79-25704
FLORIDA INST. OF TECH., MELBOURNE.
 Photosynthetic carbon reduction by seagrasses
 exposed to ultraviolet B radiation
 [NASA-CR-160144] p0175 N79-21742
FLORIDA INTERNATIONAL UNIV., MIAMI.
 Human factors aspects of low light level
 television and forward looking infrared sensor
 displays. 1: A feasibility study of scaled
 subjective complexity of still scenes applied
 to computer image generation
 [AD-A058938] p0058 N79-13715
FLORIDA UNIV., GAINESVILLE.
 The design and construction of a miniature
 dosimeter for the study of the effects of air
 cavities in radiation therapy p0176 N79-21757
FOOD AND DRUG ADMINISTRATION, CINCINNATI, OHIO.
 Thermal resistance of naturally occurring
 airborne bacterial spores p0131 A79-26147
 Ecology and thermal inactivation of microbes in
 and on interplanetary space vehicle components
 [NASA-CR-158627] p0197 N79-25705
FOOD AND DRUG ADMINISTRATION, MINNEAPOLIS, MINN.
 Thermal resistance of naturally occurring
 airborne bacterial spores p0131 A79-26147
FOREST SERVICE, HAMDEN, CONN.
 Dispersal of forest insects p0148 N79-19596
**FORSCHUNGSIINSTITUT FUER ANTHROPOTECHNIK, BOCHUM (WEST
 GERMANY).**
 Influences of joystick spring resistance on the
 execution of simple and complex positioning
 movements p0119 N79-17517
**FORSCHUNGSIINSTITUT FUER ANTHROPOTECHNIK, HECKENHEIM
 (WEST GERMANY).**
 The determination of the operating range of a
 twin-grip control yoke through biomechanical
 means p0089 N79-15609
 A control theoretic model of driver steering
 behavior p0116 N79-17491
 A two level model of human steering behavior in
 a motor vehicle [FB-27] p0197 N79-24657
 Analytical methods for biotechnological design
 of man machine systems: Work on system ergonomics
 [FB-28] p0242 N79-26787
 Influence of light adaptation on dark adaptation
 time for pattern recognition tasks
 [FB-31] p0316 N79-33835
FRANKLIN INST. RESEARCH LABS., PHILADELPHIA, PA.
 Biological effects of nonionizing
 electromagnetic radiation. Volume 2, number
 4: A digest of current literature
 [AD-A055569] p0055 N79-13689
FRANKLIN INST. RESEARCH LABS., ROCKVILLE, MD.
 A literature review-problem definition studies
 on selected toxic chemicals. Volume 2:
 Occupational health and safety aspects of
 phosphorus smoke compounds
 [AD-A056019] p0025 N79-11685
 A literature review-problem definition studies
 on selected toxic chemicals. Volume 1:
 Occupational health and safety aspects of
 diesel fuel and white smoke generated from it
 [AD-A056018] p0025 N79-11686
 A literature review-problem definition studies
 on selected toxic chemicals. Volume 5:
 Occupational health and safety and
 environmental aspects of zinc chloride
 [AD-A056020] p0025 N79-11687
 A literature review-problem definition studies
 on selected toxic chemicals. Volume 8:
 Environmental aspects of diesel fuel and fog
 oils SGF number 1 and SGF number 2 and smoke
 screens generated from them
 [AD-A056021] p0025 N79-11688
FRANKLIN RESEARCH CENTER, PHILADELPHIA, PA.
 Biological effects of nonionizing
 electromagnetic radiation, volume 3, number 4
 [AD-A070242] p0315 N79-33826
FREIBURG UNIV. (WEST GERMANY).
 Cardiological findings in 115 pilots: Diagnose-

and assessment of their flying fitness p0030 N79-11721
FUTURE SYSTEMS, INC., GAITHERSBURG, MD.
 A technology assessment of vegetable substitutes for animal protein in human food. Volume 2: Appendices [PB-284682/2] p0059 N79-13720
FUTURES GROUP, GLASTONBURY, CONN.
 A technology assessment of vegetable substitutes for animal protein in human food. Volume 1: The study [PB-284681/4] p0059 N79-13719

G**GARD, INC., NILES, ILL.**

Four-man rated dual catalyst system for the recovery of water from urine [NASA-CR-152227] p0112 N79-16550
GENERAL ACCOUNTING OFFICE, WASHINGTON, D. C.
 The Department of the Army's food irradiation program: Is it worth continuing [PB-286399/1] p0094 N79-15644
GENERAL ELECTRIC CO., HOUSTON, TEX.
 Regional program for acquisition of medical experiments [NASA-CR-160121] p0155 N79-19677
 Fluid and Electrolyte Balance model (FEB) [NASA-CR-160206] p0211 N79-24633
 Validation of a model for investigating red cell mass changes during weightlessness [NASA-CR-160188] p0211 N79-24634
 User's instructions for the Grodins' respiratory control model using the UNIVAC 1110 remote batch and demand processing [NASA-CR-160225] p0212 N79-24635
 A long term model of circulation [NASA-CR-147674] p0212 N79-24636
 Transient thermoregulatory model with graphics output [NASA-CR-160217] p0212 N79-24637
 User's instructions for the 41-node thermoregulatory model (steady state version) [NASA-CR-160220] p0212 N79-24638
 Evaluation of exercise-respiratory system modifications and preliminary respiratory-circulatory system integration scheme [NASA-CR-160221] p0212 N79-24639
 Acid-base homeostasis in the human system [NASA-CR-160222] p0212 N79-24640
 Design specification for the whole-body algorithm [NASA-CR-160226] p0212 N79-24641
 Systems identification and application systems development for monitoring the physiological and health status of crewmen in space [NASA-CR-160235] p0212 N79-24642
 Physiological system integrations with emphasis on the respiratory-cardiovascular system [NASA-CR-160230] p0213 N79-24643
 Study report on combining diagnostic and therapeutic considerations with subsystem and whole-body simulation [NASA-CR-160231] p0213 N79-24644
 The application of sensitivity analysis to models of large scale physiological systems [NASA-CR-160228] p0213 N79-24645
 User's instructions for the erythropoiesis regulatory model [NASA-CR-160193] p0216 N79-25711
 Study report on a double isotope method of calcium absorption [NASA-CR-160194] p0216 N79-25712
 Strontium metabolism in the rebuilding of skeletal tissue [NASA-CR-160195] p0216 N79-25713
 The influence of exercise on bone atrophy [NASA-CR-160196] p0216 N79-25714
 A brief review of space flight calcium metabolism: Results and methodologies [NASA-CR-160198] p0217 N79-25715
 Preliminary design specifications of a calcium model [NASA-CR-160199] p0217 N79-25716
 Development of an hypothesis for simulating anti-orthostatic bed rest [NASA-CR-160200] p0217 N79-25717
 Use of a computer model in the understanding of erythropoietic control mechanisms

[NASA-CR-160201] p0217 N79-25718
 A prioritized set of physiological measurements for future spaceflight experiments [NASA-CR-160202] p0217 N79-25719
 Dynamic regulation of erythropoiesis: A computer model of general applicability [NASA-CR-160203] p0217 N79-25720
 User's instructions for the cardiovascular Walters model [NASA-CR-160204] p0217 N79-25721
 A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722
 Fluid and electrolyte control systems in the human body: A study report [NASA-CR-160210] p0217 N79-25723
 User's instructions for the high speed version of the cardiovascular exercise model [NASA-CR-160211] p0218 N79-25724
 On a basic model of circulatory, fluid, and electrolyte regulation in the human system based upon the model of Guyton [NASA-CR-160212] p0218 N79-25725
 Investigations of respiratory control systems simulation [NASA-CR-160213] p0218 N79-25726
 Study report on modification of the long term circulatory model for the simulation of bed rest [NASA-CR-160186] p0218 N79-25727
 Improvements and validation of the erythropoiesis control model for bed rest [NASA-CR-160187] p0218 N79-25728
 Study report on interfacing major physiological subsystem models: An approach for developing a whole-body algorithm [NASA-CR-160232] p0218 N79-25729
 The development of a whole-body algorithm [NASA-CR-160214] p0218 N79-25730
 User's instructions for the Guyton circulatory dynamics model using the Univac 1110 batch and demand processing (with graphic capabilities) [NASA-CR-160215] p0218 N79-25731
 User's instructions for the GE cardiovascular model to simulate LBNP and tilt experiments, with graphic capabilities [NASA-CR-160216] p0219 N79-25732
 Evaluation of exercise-respiratory system modifications and integration schemes for physiological systems [NASA-CR-160223] p0219 N79-25733
 Study report on guidelines and test procedures for investigating stability of nonlinear cardiovascular control system models [NASA-CR-160229] p0219 N79-25734
 User's instructions for the whole-body algorithms [NASA-CR-160233] p0219 N79-25735
 Modifications to the steady-state 41-node thermoregulatory model including validation of the respiratory and diffusional water loss equations [NASA-CR-160219] p0219 N79-25738
 The application of systems analysis and mathematical models to the study of erythropoiesis during space flight [NASA-CR-160218] p0219 N79-25739
 User's guide for the Skylab integrated medical data analysis system [NASA-CR-160189] p0220 N79-25740
 The application of MINIQUASI to thermal program boundary and initial value problems [NASA-CR-160227] p0222 N79-25759
GENERAL ELECTRIC CO., PHILADELPHIA, PA.
 Animal life support transporters for Shuttle/Spacelab [ASME PAPER 78-ENAS-10] p0006 A79-12559
 Food packages for Space Shuttle [ASME PAPER 78-ENAS-13] p0007 A79-12562
 Food and waste management biotechnology for the space shuttle [IAP PAPER 79-93] p0302 A79-53294
 Skylab medical data evaluation program (SMEDEP) [NASA-CR-160279] p0259 N79-28869
 Automated biowaste sampling system feces monitoring system [NASA-CR-160301] p0281 N79-30937
GENERAL MOTORS RESEARCH LABS., WARREN, MICH.
 The influence of vehicle aerodynamic and control response characteristics on driver-vehicle

performance p0089 N79-15608
 The application of integral performance criteria to the analysis of discrete maneuvers in a driving simulator [RS-GMR-2394] p0115 N79-17484
GENETICOM, WALNUT CREEK, CALIF.
 Comparison of circadian rhythms in male and female humans p0004 A79-11947
GEORGE WASHINGTON UNIV., WASHINGTON, D. C.
 Isolation of virus-augmented tumor antigens p0142 N79-18564
GEORGETOWN UNIV., WASHINGTON, D.C.
 Effect of electroconvulsive shock on monoaminergic receptor binding sites in rat brain p0162 A79-29925
 The point mutation process in proteins p0205 A79-37972
 Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
GEORGIA INST. OF TECH., ATLANTA.
 Speech quality measurement [AD-A056272] p0033 N79-11745
GERMAN AIR FORCE, PORZ-WAHRN (WEST GERMANY).
 Night rescue operation procedure over sea with bell UH-1D helicopters p0148 N79-19609
 Backache in UH-1D helicopter crews p0149 N79-19620
GOTEBORG UNIV. (SWEDEN).
 A compact low-volume, self-regenerating artificial kidney [PB-287808/0] p0123 N79-17545
GOULD, INC., OXNARD, CALIF.
 Development of an electrical energy converter for circulatory device [PB-286738/0] p0111 N79-16545
GRUMMAN AEROSPACE CORP., BETHPAGE, N.Y.
 Firefighters Integrated Response Equipment System [ASME PAPER 78-ENAS-39] p0009 A79-12586
GULF AND WESTERN APPLIED SCIENCE LABS., WALTHAM, MASS.
 Sensory mechanism modeling [AD-A069439] p0262 N79-29796
GULF SOUTH RESEARCH INST., NEW ORLEANS, LA.
 Evaluation of toxic effects of organic contaminants in recycled water [PB-291379/6] p0190 N79-22760

H

HARLEMANN MEDICAL COLL. AND HOSPITAL, PHILADELPHIA, PA.
 The effect of moderate hypothermia on the circulatory and myocardial consequences of acute coronary ligation in dogs p0049 N79-12683
HAMILTON STANDARD, HARTFORD, CONN.
 Concept definition for an extended duration orbiter ECSS [NASA-CR-160164] p0197 N79-23666
HAMILTON STANDARD, WINDSOR LOCKS, CONN.
 Flight prototype CO2 and humidity control system [NASA-CR-160224] p0222 N79-25760
HARDING COLL., SEARCY, ARK.
 Isokinetic exercise: A review of the literature [NASA-CR-151841] p0051 N79-12695
HARVARD MEDICAL SCHOOL, BOSTON, MASS.
 Cardio-pulmonary response to shock [AD-A065672] p0196 N79-23659
HAWAII UNIV., HONOLULU.
 The effects of temperature, salinity, and other factors on the growth and formation of UV-absorbing substances by the fungus Aspergillus p0005 A79-12512
HEALTH EFFECTS RESEARCH LAB., RESEARCH TRIANGLE PARK, N. C.
 Biomedical data validation through an on-line computer system [PB-285249/9] p0057 N79-13700
HONEYWELL, INC., MINNEAPOLIS, MINN.
 Crew workload assessment. Development of a measure of operator workload [AD-A068616] p0261 N79-28884

HOPITAL BEGIN, ST. MANDE (FRANCE). Radiological examination of the Rachis and fitness for employment as a helicopter pilot p0151 N79-19634
HOPITAL D'INSTRUCTION DES ARMEES, VERSAILLES (FRANCE).
 Cardiac conduction and aptitude problem of fliers. The benefits of endocavital recording of the His bundles p0030 N79-11716
 The advantages of ultrasonic echocardiography in the cardiological evaluation of fliers p0030 N79-11718
HORIZONS RESEARCH LABS., INC., FORT LAUDERDALE, FLA.
 Development and evaluation of instrument systems for noninvasive detection, characterization and quantification of atherosclerotic lesions [PB-286851/1] p0085 N79-15582
HOUSTON UNIV., TEX.
 Prebiotic condensation reactions using cyanamide p0203 A79-37932
 Squalenes, phytanes and other isoprenoids as major neutral lipids of methanogenic and thermoacidophilic 'archaeabacteria' p0232 A79-42274
 Mathematical simulation of the human circulatory system p0110 N79-16535
 Early detection of disease: The correlation of the volatile organic profiles from patients with upper respiratory infections with subjects of normal profiles [NASA-CR-160100] p0121 N79-17532
 Man-machine analysis of translation and work tasks of Skylab films [NASA-CR-151879] p0146 N79-18592
 Operator performance and localized muscle fatigue in a simulated space vehicle control p0214 N79-24653
 Effects of gravity on contractile proteins [NASA-CR-160303] p0279 N79-30913
 Application of a structured decision process for proper inclusion of human resources in the design of a power unit support stand [AD-A069978] p0309 N79-32840
HOWARD UNIV., WASHINGTON, D. C.
 Raman and infrared investigations of the nature of intracellular water [AD-A061254] p0120 N79-17522
HUGHES AIRCRAFT CO., CULVER CITY, CALIF.
 A behavioral model of target acquisition in realistic terrain [AD-A056760] p0019 N79-10742
 Binocular holographic helmet mounted display [AD-A062761] p0174 N79-20749
HUGHES HELICOPTERS, CULVER CITY, CALIF.
 TADRAP: A computer-aided technique for reducing aircrew task analysis data p0150 N79-19628
HUMAN ENGINEERING LABS., ABERDEEN PROVING GROUND, MD.
 Internal cockpit reflections of external point light sources for the model YAH-64 advanced attack helicopter [AD-A056489] p0033 N79-11744
 A survey of existing computer programs for aircrew workload assessment [AD-A058518] p0059 N79-13718
 Lightweight helmet-mounted eye movement measurement system p0090 N79-15619
 A review of individual performance in air-to-ground target detection and identification studies [AD-A061580] p0124 N79-17551
 An interface evaluation of the XM-29 protective mask and the AH-1S telescopic sight unit [AD-A064203] p0190 N79-22764
 A photometric and legibility assessment of Aerospace Optics, Incorporated Vivisun 20/20 display [AD-A067668] p0242 N79-26786

I

ILLINOIS UNIV. AT CHICAGO CIRCLE, CHICAGO.
 Directional errors of movements and their correction in a discrete tracking task p0086 N79-15589

- A quasi-linear control theory analysis of timesharing skills. p0120 N79-17520
- Refinement and validation of a mathematical model of the human torso p0247 N79-27841
- Characterization of cardiovascular function by automated monitoring of cardiac contractility and left ventricular wall motion activity p0247 N79-27842
- Refinement and validation of a three-dimensional head-spin model [AD-A062502] p0307 N79-32826
- ILLINOIS UNIV. AT URBANA-CHAMPAIGN. Dose-effect relationships for ultrasound irradiation of brain tissue p0242 N79-27812
- Applications of chlorophyll fluorescence transient measurements to the functional analysis of photosynthetic processes p0243 N79-27813
- Development and utilization of internal models in dynamic systems: A comparison of monitors and operators as failure detectors [AD-A069730] p0282 N79-30942
- ILLINOIS UNIV. AT URBANA-CHAMPAIGN, URBANA. The effects of participatory mode and task workload on the detection of dynamic system failures p0116 N79-17487
- ILLINOIS UNIV., SAVOY. Judgement evaluation and instruction in civil pilot training [AD-A057440] p0019 N79-10737
- ILLINOIS UNIV., URBANA. A proposal concerning the origin of life on the planet earth p0253 A79-45641
- Modeling the human as a controller in a multitask environment p0087 N79-15595
- The internal model: A study of the relative contribution of proprioception and visual information to failure detection in dynamic systems p0087 N79-15596
- Prospects of a mathematical theory of human behavior in complex man-machine systems tasks p0088 N79-15599
- Analysis of a VTOL hover task with predictor displays using an optimal control model of the human operator p0088 N79-15605
- Linear modelling of attentional resource allocation p0091 N79-15626
- A model of human event detection in multiple process monitoring situations p0092 N79-15632
- Pilot decision making in a computer-aided flight management situation p0093 N79-15633
- IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND). Respiration p0247 N79-27845
- Mechanics of arterial blood flow p0247 N79-27846
- Mechanics of the microcirculation p0247 N79-27847
- Mass transport in arteries p0247 N79-27848
- Techniques of measurement p0247 N79-27850
- INDIAN INST. OF TECH., MADRAS. Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300
- INDIANA UNIV., BLOOMINGTON. The effects of active and passive heat acclimatization procedures on the cardiovascular, thermoregulatory, and sweat rate responses to work in the heat in male humans p0195 N79-23651
- INDIANA UNIV., INDIANAPOLIS. Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A
- histological study p0252 A79-44798
- INFORMATICS, INC., PALO ALTO, CALIF. Computer quantitation of coronary angiograms p0293 A79-51030
- INGENIEURBUERO FUER ERGONOMIE, MUNICH (WEST GERMANY). Investigation on the effect of mechanical properties of control elements on human control performance under stochastic roll vibrations [BMVG-FBWT-78-11] p0146 N79-18593
- Ergonomic research into human tolerances for roll and pitch as well as their influence on individual perception and reactions to control parameters [BMVG-FBWT-78-18] p0282 N79-30944
- INSTITUT FUER INFORMATIONSVERARBEITUNG IN TECHNIK UND BIOLOGIE, KARLSRUHE (WEST GERMANY). Petri nets as a modeling tool for discrete concurrent tasks of the human operator p0088 N79-15600
- INSTITUTE FOR PERCEPTION RVO-TNO, SOESTERBERG (NETHERLANDS). The want and feasibility to temper sunlight for the eyes [IZF-1977-21] p0122 N79-17538
- Sunglasses for drivers? [IZF-1977-24] p0122 N79-17539
- Some ergonomic aspects of adapting workrooms with visual display units to the human possibilities [IZF-1978-1] p0125 N79-17562
- Criteria for maximum tolerable heat stress. A proposal [IZF-1978-13] p0144 N79-18583
- The driving simulator developed by the Institute for Perception TNO. A validation study in straight road driving [IZF-1978-16-PR-1] p0145 N79-18588
- Steering behaviour and manual control actions. Part 1: An evaluation of the literature and a research plan [IZF-1978-3] p0146 N79-18594
- Acceptable radiation levels in the ultraviolet visible infrared regions [IZF-1978-15] p0248 N79-27853
- Effects of acute noise traumata on whole-nerve and single-unit activity [IZF-1978-23] p0308 N79-32829
- The use of artificial signals during SONAR-watch [IZF-1978-25] p0309 N79-32837
- Car driving as a cybernetic task [IZF-1979-6] p0309 N79-32838
- Effects of amphetamine on response selection and response execution processes in choice reaction tasks [IZF-1978-8] p0309 N79-32839
- Tentative evaluation of annoyance caused by noise from gunfire [IZF-1978-21] p0310 N79-32843
- INSTITUTE OF AVIATION MEDICINE, FARNBOROUGH (ENGLAND). Human factors in Space vehicles and space stations p0189 N79-22135
- The psychologist in aircraft accident investigation p0291 N79-31946
- Pilot incapacity in flight p0291 N79-31950
- Geographical disorientation and flight safety p0291 N79-31951
- INSTITUTES FOR THE ACHIEVEMENT OF HUMAN POTENTIAL, PHILADELPHIA, PA. The child in coma p0094 N79-15890
- The control and prevention of seizures in children, a developmental and environmental approach p0094 N79-15892
- Intelligence p0095 N79-15896
- INSTITUTO DE PESQUISAS ESPACIAIS, SAO JOSE DOS CAMPOS (BRAZIL). The application of remote sensors to a model for fish mapping [INPE-1379-PE/176] p0071 N79-14712
- INTERUNIVERSITAIR REACTOR INSTITUUT, DELFT (NETHERLANDS). Cu-content of the liver of young mice in

- relation to a defect in the Cu-metabolism [IRI-133-77-02] p0239 N79-26764
- Results of a ^{64}Cu -loading test applied to patients with an inherited defect in their Cu-metabolism (Menkes' disease) [IRI-133-77-04] p0240 N79-26774
- The oral ^{64}Cu -loading test: Applications and problems [IRI-133-78-02] p0240 N79-26775
- IOWA STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES. Mechanics of blood flow through normal and stenotic coronary arteries p0154 N79-19676
- IOWA UNIV., IOWA CITY. Aortic blood flow velocity during exercise in man p0216 N79-25710
- ISOMET CORP., PALISADES PARK, N.J. Metabolic rate meter and method [NASA-CASE-MSC-12239-1] p0175 N79-21750
- ISTITUTO SUPERIORE DI SANITA, ROME (ITALY). ESR studies on different pathological states [ISS-L-22/9] p0248 N79-27854
- Problems related to the assessment of safe exposure levels for radio frequency and microwave radiation [ISS-P-78/7] p0248 N79-27855
- Computed axial tomography (CAT) [ISS-R-78/4] p0262 N79-29791
- ITALIAN AIR FORCE MEDICAL SERVICE H. Q., ROME. Cardiovascular diseases as a cause of unfitness for flying service in aircrews of Italian Air Force: Etiopathogenesis, influence of performance in flight, and prevention p0031 N79-11725
- Sensorial aspects of helicopter operations p0152 N79-19644
- Human factors in production and prevention of aircraft accidents due to disorientation in flight p0291 N79-31952
- J**
- JACKMAN (K. R.), LA JOLLA, CALIF. Telemedicine: An expanding new science on land and sea p0146 N79-19020
- JET PROPULSION LAB., CALIFORNIA INST. OF TECH., PASADENA. The robot's eyes - Stereo vision system for automated scene analysis p0004 A79-12006
- A model for sensorimotor control and learning p0005 A79-12122
- Adaptive control of a robotic manipulator p0046 A79-15001
- Effect of ultrasonic irradiation on mammalian cells and chromosomes in vitro p0134 A79-27239
- Advanced teleoperators p0187 A79-34982
- Robotic vision p0187 A79-34984
- Polyglutaraldehyde - A new reagent for coupling proteins to microspheres and for labeling cell-surface receptors p0274 A79-50230
- Design of polymeric immunomicrospheres for cell labelling and cell separation p0275 A79-50234
- Computer quantitation of coronary angiograms p0293 A79-51030
- Signal processing in ultrasound p0294 A79-51039
- COSMOS 936, experiment K-208: Spaceflight effects on muscle fibers p0024 N79-11679
- Automated clinical system for chromosome analysis [NASA-CASE-NPO-13913-1] p0050 N79-12694
- Gas diffusion liquid storage bag and method of use for storing blood [NASA-CASE-NPO-13930-1] p0076 N79-14749
- Coupling apparatus for ultrasonic medical diagnostic system [NASA-CASE-NPO-13935-1] p0077 N79-14751
- Event-driven displays for manipulator control p0089 N79-15610
- The effect of 1 to 5 keV electrons on the reproductive integrity of microorganisms p0147 N79-19025
- Apparatus for endoscopic examination [NASA-CASE-NPO-14092-1] p0155 N79-19678
- Terminal guidance sensor system [NASA-CASE-NPO-14521-1] p0174 N79-20746
- Compact artificial hand [NASA-CASE-NPO-13906-1] p0214 N79-24652
- Multifunctional transducer [NASA-CASE-NPO-14329-1] p0219 N79-25737
- Study of modeling and evaluation of remote manipulation tasks with force feedback [NASA-CR-158721] p0242 N79-26785
- Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means [NASA-CASE-NPO-13910-1] p0246 N79-27836
- Diagnosis of cutaneous thermal burn injuries by multispectral imaging analysis [NASA-CR-162103] p0279 N79-30922
- Microbiological evaluation of the mobile biological isolator system [NASA-CR-162293] p0307 N79-32822
- JET PROPULSION LAB., CAPE CANAVERAL, FLA. Thermal resistance of naturally occurring airborne bacterial spores p0131 A79-26147
- JOHNS HOPKINS UNIV., BALTIMORE, MD. Radio tracking of a fin whale /Balaenoptera physalus/ p0061 A79-18008
- Lung mechanics: Dynamic response, acoustic generation, and flow limitation p0017 N79-10727
- The effects of carbon monoxide and cyanide on the brain p0024 N79-11682
- A study of some of the factors influencing the left ventricular diastolic pressure-volume relationship and myocardial metabolism p0154 N79-19674
- Methodological and operational aspects of programmed environment research [AD-A068587] p0289 N79-31936
- JOINT PUBLICATIONS RESEARCH SERVICE, ARLINGTON, VA. Space biology and aerospace medicine, vol. 12, no. 5, 1978 [JPRS-72115] p0013 N79-10698
- Neurophysiological bases of vestibular conditioning p0013 N79-10699
- Protein fractions and enzymatic activity thereof in the rat myocardium after the flight on Kosmos-690 biosatellite p0014 N79-10700
- Recovery of hemopoiesis in rats exposed to radiation during space flight p0014 N79-10701
- Radiation lesion to liver DNA of rats exposed to radiation during flight aboard the Kosmos-690 biosatellite p0014 N79-10702
- Histological and histochemical studies of the liver of rats flown aboard Kosmos-690 biosatellite p0014 N79-10703
- State of spermatogenesis in rats flown aboard Kosmos-690 biosatellite p0014 N79-10704
- Rat behavior in maze after flight aboard Kosmos-690 biosatellite p0014 N79-10705
- Changes in blood sugar content of dogs exposed to chronic gamma radiation for six years p0014 N79-10706
- Analysis of distribution of sequences of R-R intervals in astronauts: Generalized coordinate method p0015 N79-10707
- Compensatory reactions of the kidneys to orthostatic factors p0015 N79-10708
- Clinical and morphological studies of people in the course of long-term hypokinesia and subsequent readaptation p0015 N79-10709
- Cardiac arrhythmia following postimmersion +G sub z accelerations p0015 N79-10710

- Effects of vibration and noise on some indices of efficiency of MI-4 helicopter crews p0015 N79-10711
- Tissular respiration of the brain after exposure of rats to hypertoxic helium and oxygen mixtures at atmospheric and elevated pressure p0015 N79-10712
- Effects of endogenous factors on the process of gas bubble formation in the body related to decompression p0015 N79-10713
- Characteristics of vestibular nystagmus in rats p0016 N79-10714
- Characteristics of bacterial aerosol in airtight rooms occupied by humans p0016 N79-10715
- Decreased activity of palladium catalyst during processing of excreta p0016 N79-10716
- A method of evaluating the pupillary reaction to vestibular stimuli p0016 N79-10717
- Comparative analysis of causes of animal deaths during chronic exposure to gamma radiation and the aftereffect period p0016 N79-10718
- Effects of long-term and chronic radiation on hemopoiesis p0016 N79-10719
- Effect of accelerations combined with radiation on occurrence of gene mutations in the drosophila p0016 N79-10720
- Effect of oxygen poisoning on the spectrum of lactate dehydrogenase isozymes of rabbit blood plasma p0017 N79-10721
- Light and color on a manned spacecraft p0059 N79-13996
- Translations on USSR science and technology:
Biomedical and behavioral sciences, no. 47 [JPRS-72134] p0071 N79-14708
- Psychological experiment on components of the meaning of work p0071 N79-14709
- Effects of laser radiation on morphology of peripheral blood and bone marrow under experimental and clinical conditions p0071 N79-14710
- Space biology and aerospace medicine, vol. 12, no. 6 [JPRS-72487] p0072 N79-14716
- Dynamics of Cosmonauts' blood biochemistry during space missions p0072 N79-14717
- Studies of hemodynamics and phase structure of cardiac cycle in the crew of Salyut-4 p0072 N79-14718
- Dynamic medical monitoring of flight crews in the course of long-term flights p0072 N79-14719
- Investigation of composition of trace contaminants in the air environment of the Soyuz-22 spacecraft p0072 N79-14720
- Effects of hyperhydration on human endurance of orthostatic and LBNP tests p0072 N79-14721
- Changes in human renal function in passive head-up and head-down positions p0072 N79-14722
- Stability of circadian system of the body p0073 N79-14723
- Dynamics of impairment of pilot performance in the presence of hypoxia p0073 N79-14724
- Combined effect of hyperoxia, low pressure and exercise on the rate of methylketone excretion from the human body p0073 N79-14725
- Principal results of experiment with mammals onboard the Kosmos-782 biosatellite p0073 N79-14726
- Spermatogenesis in dogs during many years of chronic exposure to gamma radiation and in the aftereffect period p0073 N79-14727
- DNA content of animal organs during space flight on Kosmos-690 satellite p0073 N79-14728
- State of blood clotting during prolonged hypokinesia p0073 N79-14729
- The combined effect of carbon monoxide and normobaric hyperoxia on animals p0073 N79-14730
- Blood lipid changes in hypoxic rats p0074 N79-14731
- Effect of intermittent hypoxia on functional activity of peripheral blood neutrophils p0074 N79-14732
- Effect of cerebrocranial trauma on reactive distinctions of hypothalamic and hippocampal vessels in the presence of hypoxia p0074 N79-14733
- Role of vestibular system in behavior of animals submitted to prolonged slow rotation p0074 N79-14734
- Effect of psychophysiological self-regulation on emotional stability of aviation cadets in flight and on effectiveness of assimilation of flight training program p0074 N79-14735
- Translations on USSR science and technology:
Biomedical and behavioral sciences, No. 53. Effects of nonionizing electromagnetic radiation [JPRS-72606] p0074 N79-14736
- Investigation of the activity of some enzymatic systems in response to a super-high frequency electromagnetic field p0074 N79-14737
- Effects of intermittent magnetic field on activity of carbohydrate metabolism enzymes and oxygen uptake in testicular tissue p0075 N79-14738
- Effects of microwaves on catecholamine metabolism in the brain p0075 N79-14739
- Effects of electromagnetic field induction on development of the green algae, *scenedesmus quadricauda* (Turpin) Breb. and composition of free amino acids in its biomass and medium p0075 N79-14740
- Dependence of the functional activity of liver mitochondria on microwave radiation p0075 N79-14741
- State of process of oxidation phosphorylation of liver mitochondria on exposure to an electric field p0075 N79-14742
- Mechanism of effects of microwaves on erythrocyte permeability for potassium and sodium ions p0075 N79-14743
- Determination of a generalized output index of a biological experiment after multiple tests p0076 N79-14744
- Translations on USSR science and technology:
Biomedical and behavioral sciences, no. 51 [JPRS-72588] p0076 N79-14745
- Functional outcomes of prosthetic cardiac valve replacement p0076 N79-14746
- Visual information processing p0076 N79-14747
- Liberation of carbon monoxide by man when working in protective gear p0076 N79-14748
- Translations on USSR science and technology:
Biomedical and behavioral science, no. 54 [JPRS-72650] p0077 N79-14753
- Chemicals in environment affect man's physiology p0077 N79-14754
- Translations on USSR science and technology:
Biomedical and behavioral sciences, no. 52 [JPRS-72604] p0078 N79-14760
- A complex system for planning scientific medical research p0078 N79-14761
- Problem-oriented program approach to planning and management of medicine p0078 N79-14762
- New principles of automation of biomedical research p0078 N79-14763
- The conception of the systems analytic approach to planning and organization of medical scientific research p0078 N79-14764

- p0078 N79-14764
- Current status and prospects of continued refinement of planning and coordination of scientific medical research p0078 N79-14765
- The systems analytic approach to the problem of classification of scientific medical research p0078 N79-14766
- Use of the systems analytic approach for organization and coordination of complex biomedical research p0079 N79-14767
- Development of aerospace-aviation equipment described p0081 N79-14795
- Information-handling capacity of a human operator in detection of signals against a noisy background p0081 N79-14795
- Space biology and aerospace medicine, volume 13, no. 1, 1979 [JPRS-72826] p0107 N79-16514
- Effect of 49-day space flight on parameters of immunological reactivity and protein composition of blood in the crew of Salyut-5 p0107 N79-16515
- Effects of space flight on course of radiation lesions in rat lymphoid organs p0107 N79-16516
- Morphological study of adrenals of rats irradiated during flight aboard Kosmos-690 satellite p0108 N79-16517
- Changes in metabolism of soleus muscle tissue in rats following the flight aboard the Kosmos-690 biosatellite p0108 N79-16518
- Changes in amount and composition of phospholipids in rat skeletal muscle microsomal fraction under the influence of a flight aboard the Kosmos-690 biosatellite p0108 N79-16519
- Antiorthostatic hypokinesia as an approximate model of weightlessness p0108 N79-16520
- Bioelectrical activity of the brain during 49-day antiorthostatic hypokinesia in individuals with early signs of vegetovascular dysfunction p0108 N79-16521
- Changes in properties of rat femur as a result of crural exarticulation and hypokinesia p0108 N79-16522
- Blood clotting factors of the vascular wall and myocardium of hypokinetic rabbits p0108 N79-16523
- Effect of hypokinesia on animal resistance to chemical agents p0109 N79-16524
- Cerebral hemodynamics and visual analyzer function following exposure to bright light p0109 N79-16525
- Effects of prolonged unidirectional shift of sleeping-waking cycle on physiological functions, mental productivity and sleep of man p0109 N79-16526
- Ergometric tests in expert medical certification of flight personnel p0109 N79-16527
- Concentration of trace contaminants during gas chromatography and chromato-mass spectrometry in biomedical research p0109 N79-16528
- Effects of space flight factors on electrolyte composition of rat skeletal muscles p0109 N79-16530
- Prospects of using Japanese quail in biological life support systems p0109 N79-16531
- Effects of LBNP on catecholamines and adrenal cortex p0110 N79-16532
- Correction of transcapillary exchange in man under the influence of rotation on a centrifuge while immersed in water p0110 N79-16533
- Rehabilitation measures used to restore physical fitness of man after long-term restriction of movement p0110 N79-16534
- Antiradiation suit and other special clothing at industrial safety exhibition p0114 N79-16793
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 57 [JPRS-72808] p0121 N79-17526
- Comparative study of acetylcholinesterase inactivation in warm-blooded animals and insects with substituted vinyl phosphates p0121 N79-17527
- Environment monitoring in the USSR and hygienic practice p0121 N79-17528
- Ergonomics laboratory studies pilots' stability for command p0121 N79-17529
- Intestinal autoflora as an indicator of severity of radiation lesion p0121 N79-17530
- Problems of human adaption to spaceflight p0157 N79-19985
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 50 [JPRS-72462] p0170 N79-20720
- The role of computer technology mathematical models in treatment of patients following heart surgery p0170 N79-20721
- New combined aspirator for sampling developed p0170 N79-20722
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 59. Effects of nonionizing electromagnetic radiation [JPRS-72956] p0171 N79-20732
- Decrease in the functional abilities of the heart as a result of exposure of an organism to an electromagnetic field of industrial frequency p0172 N79-20733
- Biological effects of a magnetic field p0172 N79-20734
- Effect of radio waves of a millimeter frequency range on the body of man and animals p0172 N79-20735
- Immunological effects of microwave action p0172 N79-20736
- Magnetic field effect on radial processes in biological membranes p0172 N79-20737
- Effect of different doses of centimeter-band electromagnetic oscillations of bioluminescence of central nervous system and liver tissues p0172 N79-20738
- Effect of infra-low-frequency magnetic fields on cell division p0173 N79-20739
- The influence of SHF electromagnetic fields on the secretory function of the stomach p0173 N79-20740
- Changes in calcium ion activity due to magnetization of solution as the possible mechanism of biological action of magnetic fields p0173 N79-20741
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 60 [JPRS-73135] p0175 N79-21745
- Liquid crystal developments for medicine p0175 N79-21746
- Training effect of recognition of different alphabets of visual stimuli p0175 N79-21747
- Orenburg symposium on mycotoxins p0175 N79-21749
- Space biology and aerospace medicine, no. 2, 1979 [JPRS-73377] p0190 N79-23627
- Some problems involved in using mathematical methods for evaluation of pathophysiological changes in the body p0192 N79-23628
- Studies of microbial flora and immunity of Salyut-3 crew p0192 N79-23629
- Use of a mathematical model of erythropoiesis for evaluation of effects of space flight factors p0192 N79-23630

- Biochemical study of proteins of gastric and intestinal mucosa of rats flown aboard the Kosmos-605 biosatellite p0192 N79-23631
- Effects of vestibular factors on color-discriminating function of the human eyes following color preadaptation p0192 N79-23632
- The adrenosympathetic system in the presence of traumatic shock during simulation of effects of weightlessness on the human body p0192 N79-23633
- Effects of physical conditioning and electric stimulation on metabolic processes in the soleus muscle and structure thereof in hypokinetic man p0192 N79-23634
- Distinctions referable to excretion of end products of protein metabolism in urine of man submitted to 182-day antiorthostatic hypokinesia p0193 N79-23635
- Sterols bound with blood plasma proteins and erythrocyte membranes during hypokinesia p0193 N79-23636
- Increased hemoglobin and content of rat blood serum as a result of decreased resistance of erythrocyte membranes to hyperbaric oxygenation, and the protective effect of urea p0193 N79-23637
- Microflora of water reclaimed in sealed compartments p0193 N79-23638
- External respiration and gas exchange reactions to exercise during rotation of man on a short-radius centrifuge p0193 N79-23639
- Restoration of color perception after deadapting flashes p0193 N79-23640
- Effect of combination of hypoxia and hypercapnia on survival of Japanese quail p0194 N79-23641
- Effects of different values of urine pH during long-term storage on microflora composition p0194 N79-23643
- Tissular blood clotting factors of vascular walls and myocardium during hypokinesia p0194 N79-23644
- Space biology and aerospace medicine, v. 13, no. 3, 1979 [JPRS-73784] p0243 N79-27817
- Helium-oxygen mixture and the organism hyperbaric aspect p0243 N79-27818
- Simulation of fluid-electrolyte metabolism as a means of preventing orthostatic instability in the crew of the second expedition aboard the Salyut-4 station p0243 N79-27819
- Investigation of albumin and globulin composition of blood of the crew of the Salyut-3 orbital station p0244 N79-27820
- The combined effect of space flight factors and radiation on rat skeletal muscles p0244 N79-27821
- Catecholamines and enzymes of metabolism thereof in the rat hypothalamus after flight aboard Cosmos-782 biosatellite p0244 N79-27822
- Tissular metabolism in mixed type fibers of rat skeletal muscles after flight aboard Cosmos-690 biosatellite p0244 N79-27823
- Immunological reactivity of rats flown aboard Cosmos-605 and Cosmos-690 biosatellites p0244 N79-27824
- Possibilities of preventing adverse reactions in simulating the acute period of adaptation to weightlessness p0244 N79-27825
- Probability of caisson disease while wearing a space suit when exiting from a spacecraft with an atmosphere close to that of earth p0244 N79-27826
- Pneumotachographic distinctions of external respiration in man in the presence of excess intrapulmonary pressure on ground level and at high altitudes p0245 N79-27827
- Effect of acute hypoxia on some parameters of renal excretory function and renal hemodynamics p0245 N79-27828
- Toxicity of oxygen mixed with helium p0245 N79-27829
- Effect of hyperbaric oxygen on peripheral blood neutrophil metabolism p0245 N79-27830
- Effect of brief head-down hypokinesia on pressure in various parts of the healthy man's cardiovascular system p0245 N79-27831
- Evaluation of circulatory reactions in the head to antiorthostatic position p0245 N79-27832
- Animal endurance to recurrent impact accelerations p0246 N79-27833
- Characteristics of proteins of some unicellular organisms as potential components of ecological life support systems p0246 N79-27834
- Morphological distinctions of the rat thyroid and parathyroid following long-term space flights p0246 N79-27835
- Translations on USSR science and technology: Biomedical and behavioral sciences, no. 81 [JPRS-73729] p0249 N79-27860
- The systemic principles of building a man-machine control staff p0249 N79-27861
- Effects of vibration on the human organism p0249 N79-27862
- Space Biology and Aerospace Medicine, no. 4, 1979 [JPRS-74330] p0310 N79-33789
- Immunobiological reactivity of the body under hyperbaric and hypobaric conditions p0310 N79-33790
- Studies of venous circulation in the crew of the Salyut-5 orbital station p0310 N79-33791
- Fluid-electrolyte metabolism in the crew of Salyut-4 p0311 N79-33792
- Control of vertical position after flights aboard the Salyut-4 orbital station p0311 N79-33793
- Effects on lipid metabolism in man of some factors that simulate space flight conditions p0311 N79-33794
- Electrolyte composition of rat blood plasma and skeletal muscles after flight aboard the Cosmos-690 biosatellite p0311 N79-33795
- Intensity of DNA synthesis in animal organs after flight aboard the Cosmos-782 biosatellite p0311 N79-33796
- Effect of brief head-down position on parameters of carbohydrate metabolism and beta lipoprotein content of blood p0311 N79-33797
- Influence of pressure chamber conditions on adrenocortical function in man (according to results of assaying blood plasma 11-hydroxycorticosteroids) p0311 N79-33798
- Energy expenditures of man during long exposure to a periodically changing atmosphere p0312 N79-33799
- Distinctions of influence of the reticular formation of the midbrain on the heart and respiration with exposure to centripetal accelerations p0312 N79-33800
- Significance of the vibration component to the deleterious effect of impact accelerations p0312 N79-33801
- Effect of restricted activity on vestibular function p0312 N79-33802
- Effect of rocking on absorption of some group B vitamins and ascorbic acid in the small intestine of dogs p0312 N79-33803
- Ultrastructure of lymph nodes of dogs exposed to long-term external gamma radiation p0312 N79-33804

Some of the problems involved in planning biological experiments p0312 N79-33805
 Adaptive optimization of exchange of gases in plants in a sealed phytotron p0313 N79-33806
 Quality of water reclaimed from urine as related to pH of initial product p0313 N79-33807
 Evaluation of oxidizability of air in closed areas p0313 N79-33808
 Effect of hydrostatic factor on orthostatic stability and physical fitness of man during 60-day antiorthostatic hypokinesia p0313 N79-33809
 Vertical orientation of man during 5-day antiorthostatic hypokinesia (-4, -8 and -12 deg head down position) p0313 N79-33810
 Effect of impact accelerations on chemical resistance of rat erythrocytes p0313 N79-33811
 External respiration and gas exchange reactions of man during rotation on a short-arm centrifuge p0313 N79-33812
 Blood coagulation and tissular factors of blood clotting in heparinized rabbits submitted to hypokinesia p0313 N79-33813
 Third Symposium on Motion Sickness p0313 N79-33814

K

KANSAS STATE UNIV., MANHATTAN.
 Investigations of respiratory control systems simulation [NASA-CR-160213] p0218 N79-25726
 KANSAS UNIV., LAWRENCE.
 The effect of hyperoxia on cerebral blood flow in the unanesthetized pony p0107 N79-16511
 A study of the effects of six light conditions on caloric induced nystagmus p0195 N79-23652
 KANSAS WATER RESOURCES RESEARCH INST., MANHATTAN.
 Effects of heavy metals especially selenium, vanadium and zirconium on movement, growth and survival of certain animal aquatic life [PB-292563/4] p0197 N79-25706
 KENTUCKY STATE UNIV., FRANKFORT.
 Reproductive adaptation in Drosophila exposed to oxygen-enriched atmospheres p0164 A79-30657
 KENTUCKY UNIV., LEXINGTON.
 Dynamic response of vertebral elements related to USAF injury [AD-A059489] p0071 N79-14713
 Frequency response of cardiovascular regulation in canines to sinusoidal acceleration at frequencies below 1 Hz (basis for biodynamic modeling) p0286 N79-31915
 The causes of decrements in aircrew performance physiological changes produced by vibration and other environmental stresses and response of the cardiovascular system to vibration and combined stress [AD-A069952] p0318 N79-33845

L

LABORATOIRE DE MEDECINE AEROSPATIALE,
 BRETAGNY-SUR-ORGE (FRANCE).
 Vertebral pains in helicopter pilots p0153 N79-19656
 LEHIGH UNIV., BETHLEHEM, PA.
 Mathematical studies of oxygen transport to tissue p0170 N79-20723
 LETTERMAN ARMY INST. OF RESEARCH, SAN FRANCISCO, CALIF.
 Honest 1: Personality, heart rate, urinary catecholamine, and subjective fatigue measures related to night nap-of-the-earth flying [AD-A054888] p0055 N79-13692
 LIFE SYSTEMS, INC., CLEVELAND, OHIO.
 Instrumentation for controlling and monitoring environmental control and life support systems [ASME PAPER 78-ENAS-40] p0009 A79-12587

Technology advancement of an oxygen generation subsystem [NASA-CR-152257] p0261 N79-28883
 Electrochemically regenerable carbon dioxide absorber [NASA-CR-152099] p0262 N79-29794
 LINCOLN LAB., MASS. INST. OF TECH., LEXINGTON.
 ARPA authoring system [AD-A064723] p0190 N79-22762
 LINUS PAULING INST. FOR SCIENCE AND MEDICINE, MENLO PARK, CALIF.
 Orthomolecular enhancement of human development p0095 N79-15895
 LOCKHEED ELECTRONICS CO., HOUSTON, TEX.
 Meteorological limits on the growth and development of screwworm populations [NASA-CR-151873] p0107 N79-16512
 LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CALIF.
 Vestibular Function Research (VFR) experiment. Phase B: Design definition study [NASA-CR-152207] p0024 N79-11683
 Spacelab scrubber analysis and test support [NASA-CR-161309] p0318 N79-33849
 LOS ALAMOS SCIENTIFIC LAB., N. MEX.
 A preliminary toxicological study of silastic 386 foam elastomer: catalyst [LA-7366-MS] p0071 N79-14714
 Estimating percentiles of nonnormal anthropometric populations [AD-A061151] p0122 N79-17535
 LOS ANGELES STATE AND COUNTY ARBORETUM, ARCADIA, CALIF.
 Mechanism of plant virus inactivation in soil injected with municipal wastewater and treatment plant sludges [PB-287012/9] p0107 N79-16513
 LOUISIANA STATE UNIV., SHREVEPORT.
 Biomedical constraints on thermal protective flight clothing design: A bioengineering analysis p0153 N79-19662
 LOUISIANA STATE UNIV. AND A&M COLL., BATON ROUGE.
 The influence of various physiological responses on ratings of perceived exertion before and after training p0194 N79-23649
 LOUISVILLE UNIV., KY.
 Killifish development in zero-G on COSMOS 782: Fundulus experiment K-104 p0021 N79-11659
 Mechanisms of retinal damage from chronic laser radiation: Thresholds and mechanisms [AD-A058449] p0056 N79-13698
 LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, ALBUQUERQUE, N. MEX.
 Effects of regional hemococoncentration during LBNP on plasma volume determinations p0265 A79-47326
 Specialized physiological studies in support of manned space flight [NASA-CR-151876] p0111 N79-16542

M

MALLORY (KENNETH) AND ASSOCIATES, INC., VIENNA, VA.
 Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
 MAN FACTORS, INC., SAN DIEGO, CALIF.
 Development of recommendations to improve controls operability [PB-284433/0] p0053 N79-12714
 MARQUETTE UNIV., MILWAUKEE, WIS.
 Density dependence of maximum expiratory flow p0050 N79-12691
 Noninvasive techniques in the evaluation of the peripheral circulation p0154 N79-19675
 MARTIN MARIETTA AEROSPACE, BETHESDA, MD.
 Computer aided control of a mechanical arm p0275 A79-50334
 MARTIN MARIETTA AEROSPACE, DENVER, COLO.
 Solar-driven chemical energy source for a Martian biota p0254 A79-46464
 MARTIN MARIETTA CORP., DENVER, COLO.
 Spacecraft utensil/hand cleansing fixture [NASA-CR-151845] p0032 N79-11731
 Spacecraft utensil/hand cleansing fixture, addendum

[NASA-CR-151846] p0032 N79-11732
 Manned maneuvering unit: User's guide
 [NASA-CR-151864] p0113 N79-16553
 Urine collection apparatus
 [NASA-CASE-MSC-18381-1] p0195 N79-23657
MARTIN MARIETTA LABS., BALTIMORE, MD.
 Photochemistry and enzymology of photosynthesis
 [COO-3326-70] p0239 N79-26763
MARYLAND UNIV., COLLEGE PARK.
 Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
 Temperature uniformity in hyperthermal tumor therapy p0018 N79-10730
 Electric field measurements within biological media p0083 N79-15562
 Region extraction using convergent evidence [AD-A061591] p0124 N79-17552
 A theoretical study of membrane diffusion and lymphocyte patching p0142 N79-18563
MARYLAND UNIV., SOLOMONS.
 Results of benthic studies at Calvert Cliffs [PB-294261/3] p0261 N79-29788
MASON (VIRGINIA) RESEARCH CENTER, SEATTLE, WASH.
 Hyperbaric decompression by means of bubble detection [AD-A062441] p0171 N79-20726
MASSACHUSETTS INST. OF TECH., CAMBRIDGE.
 Optokinetic motion sickness - Attenuation of visually-induced apparent self-rotation by passive head movements p0135 A79-27558
 A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples p0160 A79-28993
 Changes in apparent body orientation and sensory localization induced by vibration of postural muscles - Vibratory myesthetic illusions p0163 A79-30653
 Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness p0165 A79-30662
 Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
 Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria p0233 A79-42448
 Eye torsion and visual tilt are mediated by different binocular processes p0256 A79-46651
 Microwave thermography: Physical principles and diagnostic applications p0083 N79-15567
 Experiments in texture perception [AD-A059630] p0086 N79-15587
 Human/computer control of undersea teleoperators p0089 N79-15612
 Display aids for remote control of untethered undersea vehicles p0090 N79-15613
 A model for dynamic allocation of human attention among multiple tasks p0092 N79-15627
 Proceedings, 13th Annual Conference on Manual Control [NASA-CR-158107] p0114 N79-17475
 The facilitating effects of uncertainty in long-term manual control p0115 N79-17485
 Multi-attribute subjective evaluations of manual tracking tasks vs. objective performance of the human operator p0116 N79-17486
 Manual control of yaw motion with combined visual and vestibular cues p0119 N79-17513
 Mechanisms of deterioration of nutrients [NASA-CR-160128] p0156 N79-19686
 Bandpass channels, zero-crossings, and early visual information processing [AD-A062338] p0170 N79-20724
 Maximizing storage stability of foods to be used for resupply in a controlled ecological life supply system: Evaluation of research [NASA-CR-158846] p0260 N79-28880
MASSACHUSETTS UNIV., AMHERST.
 Cell response to chronic irradiation-modeling and simulation studies p0142 N79-18562
MASSACHUSETTS UNIV., WORCESTER.
 Low tryptophan diet decreases brain serotonin and alters response to apomorphine p0226 A79-40672
MAX-PLANCK-INSTITUT, BAD KREUZNACH (WEST GERMANY).
 Human exposure to mechanical vibration at lying posture in the ambulance helicopter UH-1D p0149 N79-19617
MAYO FOUNDATION, ROCHESTER, MINN.
 High-speed computerized tomography p0004 A79-12030
 Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-284686/3] p0052 N79-12703
 Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease [PB-286696/0] p0085 N79-15581
MCDONNELL-DOUGLAS ASTRONAUTICS CO., HUNTINGTON BEACH, CALIF.
 Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56] p0003 A79-11224
 Generalized environmental control and life support system computer program (G1894), phase 3 [NASA-CR-151836] p0019 N79-10741
 Biomedical application in space, pilot program in the southern California region [NASA-CR-160171] p0195 N79-23653
MCDONNELL-DOUGLAS ASTRONAUTICS CO., ST. LOUIS, MO.
 Microbial load monitor [NASA-CR-160274] p0243 N79-27815
MEDICAL BIOLOGICAL LAB. RVO-TNO, RIJSWIJK (NETHERLANDS).
 Early diagnosis for decompression sickness. Changes in the blood found shortly after decompression. Part 2: Experiments on rats [MBL-1978-7] p0120 N79-17524
 Chemical protection against ionizing radiation: A survey of possible mechanisms [MBL-1977-8] p0122 N79-17540
 Evaluation of the risks involved in the application of tritium gas and measures which have to be taken [MBL-1978-6] p0122 N79-17541
MEDICAL COLL. OF VIRGINIA, RICHMOND.
 The effect of hyperthermia on the radiation response of crypt cells in mouse jejunum p0018 N79-10731
 A microangiographic study of the effect of hyperthermia on the rabbit bladder p0018 N79-10732
 The combined effects of pulsed magnetic radiation (diapulse) and chemotherapy on tumor bearing mice. The measurement of rodent palatal explants as a device for measurement of the biologic effects of nonionic radiation (EMR) p0018 N79-10733
 Recruitment and discharge properties of motor units in human brachial biceps and adductor pollicis during isometric contractions p0216 N79-25708
MEDICAL PHYSICS INST. UTRECHT (NETHERLANDS).
 General activities related to medical research [TNO-MPI-PR-6] p0262 N79-29793
MEDIZINISCHE HOCHSCHULE HANNOVER (WEST GERMANY).
 Balance training of the equilibrium organ and its effect on flight strategy p0242 N79-27074
MEDIZINISCHE POLIKLINIK DER UNIV., WURZBURG (WEST GERMANY).
 The significance of rhythm disturbances in asymptomatic persons p0027 N79-11698
MIAMI UNIV., CORAL GABLES, FLA.
 Interfacial and intracellular water: Expected anomalies in dielectric properties p0082 N79-15558

- MICHIGAN STATE UNIV., EAST LANSING.
Arm-leg reach and workspace layout p0033 N79-11739
- MICHIGAN UNIV., ANN ARBOR.
The response of selected terrestrial organisms to the Martian environment - A modeling study p0136 A79-27928
- The inertial properties of the body and its segments p0033 N79-11738
- Whole body response research program [PB-286151/6] p0093 N79-15640
- Whole body response research program. Appendix A: Methodology [PB-286152/4] p0094 N79-15641
- Whole body response research program. Appendix B: Raw data [PB-286153/2] p0094 N79-15642
- Whole body response research program. Appendix C: Processed data [PB-286154/0] p0094 N79-15643
- A stochastic model of muscle fatigue in frequent strenuous work cycles p0261 N79-29789
- Isometric strength testing in selecting workers for strenuous jobs p0262 N79-29790
- MIDWEST RESEARCH INST., MINNETONKA, MINN.
Evaluation of fluoropolymer membranes in oxygenators [PB-286698/6] p0112 N79-16547
- MINICARS, INC., GOLETA, CALIF.
Development of a solid propellant inflation technique for the subcompact car passenger restraint system, phase I [PB-290328/4] p0178 N79-21775
- MINNESOTA UNIV., MINNEAPOLIS.
Proceedings of the 1977 Computerized Adaptive Testing Conference [AD-A060049] p0079 N79-14771
- A construct validation of adaptive achievement testing [AD-A063148] p0173 N79-20742
- A computer system for statistical analysis of EEG transients p0216 N79-25707
- MISSISSIPPI STATE UNIV., MISSISSIPPI STATE.
Distribution of bluegreen algae in a Mississippi Gulf Coast salt marsh [PB-288982/2] p0153 N79-19667
- MISSISSIPPI UNIV., JACKSON.
The pulmonary circulation: Studies on alveolar hypoxia and vascular smooth muscle metabolism p0195 N79-23650
- A long term model of circulation [NASA-CR-147674] p0212 N79-24636
- MISSOURI UNIV., COLUMBIA.
Intestinal transport of hexoses in the rat following chronic heat exposure p0236 A79-43701
- MISSOURI UNIV. - COLUMBIA.
Suppression of the immune response by ultrasound p0142 N79-18560
- A biochemical basis of obligate anaerobiosis p0142 N79-18561
- The growth kinetics of freshwater algae p0174 N79-21740
- A systematic approach to computer analysis of pulmonary vascular patterns p0176 N79-21756
- Effect of phosphorus supply on algal biomass in a turbid Missouri Reservoir [PB-293183/0] p0243 N79-27816
- Selective attention: The influences of subject sex and degree of prior habituation on performance of an attention task with distraction p0260 N79-28876
- Mechanisms of oxygen toxicity at the cellular level [AD-A070026] p0307 N79-32823
- MISSOURI UNIV. - KANSAS CITY.
Citric acid enhancement of copper sulfate toxicity to blue-green algae and other nuisance organisms [PB-289490/5] p0170 N79-20718
- Citric acid enhancement of copper sulfate toxicity to the blue-green algae "aphanizomenon flos-aquae" and "microcystis aeruginosa"
[PB-291637/7] p0189 N79-22751
- MISSOURI UNIV. - ROLLA.
Unsteady-state response of the vascular system to transient and sustained aerospace acceleration profiles p0286 N79-31917
- MITRE CORP., MCLEAN, VA.
Improvements in the man-machine interface for data acquisition, display and control p0224 N79-25983
- Telehealth handbook: A guide to telecommunications technology for rural health care [PB-292557/6] p0241 N79-26778
- MONSANTO RESEARCH CORP., DAYTON, OHIO.
Physical testing of polymers use in circulatory assist devices [PB-286129/2] p0084 N79-15579
- MONTEFIORE HOSPITAL, NEW YORK.
Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0028 N79-11704
- MOUNT ZION HOSPITAL AND MEDICAL CENTER, SAN FRANCISCO, CALIF.
Comparison of plasma and urinary steroids in men with type A and type B behavior patterns p0028 N79-11704
- NASSAU HOSPITAL, MINEOLA, N. Y.
Coma recovery p0094 N79-15891
- NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL, WASHINGTON, D. C.
Zinc [PB-285130/1] p0057 N79-13704
Improved subcutaneous electrode structure [NASA-CASE-ARC-11117-1] p0084 N79-15576
Evaluation of research on surrogates for humans in motor vehicle crashes [PB-291012/3] p0178 N79-21774
The effects of whole-body vibration on health [AD-A068478] p0284 N79-31900
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D. C.
Challenges to life support system's future [ASME PAPER 78-ENAS-28] p0008 A79-12577
Life sciences in the Shuttle era [ASME PAPER 78-ENAS-34] p0008 A79-12582
NASA flight management research p0040 A79-13218
The role of physical examinations and education in prospective medicine p0026 N79-11694
- The cosmonaut in flight [NASA-TT-F-17438] p0032 N79-11729
Role of gravity in early development [NASA-TM-75590] p0049 N79-12684
The organism and the habitation atmosphere [NASA-TM-75536] p0049 N79-12685
The effects of strong shock waves on mortality rates and percentages of pulmonary lesions in rats as a function of the number of exposures [NASA-TM-75598] p0053 N79-13676
- Paul Bert [NASA-TM-75599] p0055 N79-13687
Materials of the final reports on the joint Soviet-American experiment on the Kosmos-936 biosatellite [NASA-TM-75582] p0071 N79-14711
Man in space and on earth [NASA-TM-75602] p0122 N79-17533
The Medusa experiment: An orbital complex ten weeks in flight [NASA-TM-75394] p0169 N79-20714
Prebiotic coordination chemistry: The potential role of transition-metal complexes in the chemical evolution [NASA-TM-75381] p0169 N79-20715
Salyut-6--Soyuz-29: Our commentary, the crew and the station [NASA-TM-75393] p0174 N79-20745
Microanalytical identification of barium sulphate crystals in statoliths of Chara Rhizoids [NASA-TM-75611] p0175 N79-21744

- Utilization of the wastes of vital activity [NASA-TM-75410] p0177 N79-21768
- Publications of the planetary biology program for 1977: A special bibliography [NASA-TM-80338] p0179 N79-21777
- Medical science in Siberia: Oxygen exchange in the Far North [NASA-TM-75391] p0211 N79-24630
- Investigations about the quantitative changes of carbon dioxide production in humans. Report 2: Carbon dioxide production during fever and its relationship with heat production [NASA-TM-75452] p0211 N79-24632
- Obtaining growth hormone from calf blood [NASA-TM-75326] p0283 N79-31895
- Experimental and theoretical investigations concerning a frequency filter behavior of the human retina regarding electric pulse currents [NASA-TM-75372] p0314 N79-33822
- Contribution to the theory of photopic vision: Retinal phenomena [NASA-TM-75507] p0315 N79-33823
- Publications of the planetary biology program for 1978: A special bibliography [NASA-TM-80745] p0319 N79-33854
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. AMES RESEARCH CENTER, MOFFETT FIELD, CALIF.
- Coupling of aspartate and serine transport to the transmembrane electrochemical gradient for sodium ions in Halobacterium halobium - Translocation stoichiometries and apparent cooperativity p0002 A79-10425
- In-vivo bone strain telemetry in monkeys /M. nemestrina/ p0002 A79-10608
- Biological specimen holding facilities for Spacelab experiments [IAF PAPER 78-56] p0003 A79-11224
- Comparison of circadian rhythms in male and female humans p0004 A79-11947
- Comparison of hormone and electrolyte circadian rhythms in male and female humans p0004 A79-11948
- Characterization of a novel extremely alkalophilic bacterium p0004 A79-11950
- A study of axonal degeneration in the optic nerves of aging mice p0005 A79-12123
- In vivo response of ornithine decarboxylase activity to growth hormone as demonstrated by oxidation of L-ornithine-1-/C-14/ in hypophysectomized rats p0005 A79-12400
- Effects of fenfluramine administration on activity of the pituitary-adrenal system in the rat p0005 A79-12474
- Temperature-dependent morphological changes in membranes of Bacillus stearothermophilus p0005 A79-12475
- Planetary protection guidelines for Outer Planet missions p0005 A79-12511
- Animal life support transporters for Shuttle/Spacelab [ASME PAPER 78-ENAS-10] p0006 A79-12559
- Vestibular Function Research aboard Spacelab [ASME PAPER 78-ENAS-25] p0007 A79-12574
- Support system considerations for STS biological investigations [ASME PAPER 78-ENAS-37] p0008 A79-12584
- Studies on the erythron and the ferrokinetic responses in beagles adapted to hypergravity p0010 A79-12869
- Coordinated crew performance in commercial aircraft operations p0040 A79-13219
- Identification of a tripeptidyl aminopeptidase in the anterior pituitary gland - Effect on the chemical and biological properties of rat and bovine growth hormones p0069 A79-19449
- The Viking biological investigations - Review and status p0100 A79-22083
- Cardiovascular regulatory response to lower body negative pressure following blood volume loss p0101 A79-23470
- The use of hybrid integrated circuit techniques in biotelemetry applications p0131 A79-26145
- Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
- RBC-/Cr-51/ half-life and albumin turnover in growing Beagle dogs during chronic radial acceleration p0135 A79-27553
- The response of selected terrestrial organisms to the Martian environment - A modeling study p0136 A79-27928
- Plasma volume and electrolyte shifts with heavy exercise in sitting and supine positions p0161 A79-29336
- Prebiotic nucleotide oligomerization in a fluctuating environment - Effects of kaolinite and cyanamide p0162 A79-29938
- Effects of aeration on formation and localization of the acetyl coenzyme A synthetases of *Saccharomyces cerevisiae* p0162 A79-30125
- Effect of sodium and calcium ingestion on thermoregulation during exercise in man p0163 A79-30624
- Spaceflight and bone turnover - Correlation with a new rat model of weightlessness p0182 A79-33049
- The joint US-USSR biological satellite program p0182 A79-33050
- Sweating responses during heat acclimation and moderate conditioning p0185 A79-33803
- A rationale for human operator pulsive control behavior p0186 A79-34520
- Motion sickness in cats - A symptom rating scale used in laboratory and flight tests p0202 A79-37711
- An approach to the origin of self-replicating system. I - Internolecular interactions p0204 A79-37948
- Relationship between proton motive force and potassium ion transport in *Halobacterium halobium* envelope vesicles p0227 A79-40775
- Telemetry of intracranial pressure p0227 A79-41400
- An inductively powered telemetry system for temperature, EKG, and activity monitoring p0228 A79-41424
- Continuous metabolic and cardiovascular measurements on a monkey subject during a simulated 6-day Spacelab mission p0229 A79-41713
- Analysis of population mortality kinetics with application to the longevity followup of the Navy's 1,000 aviators p0234 A79-43207
- Limb blood flow - Rest and heavy exercise in sitting and supine positions in man p0235 A79-43208
- Inhibition of the pituitary-adrenal response to stress during deprivation-induced feeding p0235 A79-43605
- Computer design synthesis of a below knee-Syme prosthesis p0251 A79-44300
- Hyperthermia and exercise p0252 A79-44775
- Insulin-like effect of bovine growth hormone in vivo as demonstrated by oxidation of C/14-/U-glucose in diabetic rats p0252 A79-44797
- Effects of high-LET neon /Ne-20/ particle radiation on the brain, eyes and other head structures of the pocket mouse - A histological study p0252 A79-44798
- Quantitative analysis of mating behavior in aging male *Drosophila Melanogaster* p0252 A79-44799
- A structural model of the adaptive human pilot [AIAA 79-1784] p0252 A79-45411

- The importance of light, postural and social cues in the regulation of the plasma cortisol rhythm in man p0267 A79-47398
- Studies on the bioassayable growth hormone-like activity of plasma p0267 A79-47848
- Gating effects in Halobacterium halobium membrane transport p0268 A79-47849
- Particle deposition due to turbulent diffusion in the upper respiratory system p0270 A79-48251
- Light-driven solute transport in Halobacterium halobium p0270 A79-49194
- Deconditioning-induced exercise responses as influenced by heat acclimation p0273 A79-49985
- A simple technique for evaluation of vitality loss in aging mice, by testing their muscular coordination and vigor p0274 A79-50205
- Synaptosomal uptake of hypothalamic monoamines and recovery of pituitary-adrenal activity following medial forebrain bundle lesions in rats p0275 A79-50232
- Aerospace highlights and potential medical applications p0293 A79-51027
- Biomagnetic instrumentation and measurement p0295 A79-51043
- Energy transduction in Halobacterium halobium p0300 A79-53000
- Bioinstrumentation for evaluation of workload in payload specialists - Results of ASSESS II [IAF PAPER 79-88] p0302 A79-53291
- Contour detector and data acquisition system for the left ventricular outline [NASA-CASE-ARC-10985-1] p0017 N79-10724
- US experiments flown on the Soviet Satellite COSMOS 782 [NASA-TM-78525] p0020 N79-11651
- US experiments flown on COSMOS 782 p0020 N79-11652
- Absence of gastric ulceration in rats after flight on the COSMOS 782 p0021 N79-11660
- Effect of space flight on cell-mediated immunity p0021 N79-11661
- Experiment K-002: Results of histological examination of inguinal lymph nodes, supplementary report p0021 N79-11662
- Alterations in erythrocyte survival parameters in rats after 19.5 days aboard COSMOS 782 p0021 N79-11663
- Effects of space flight on plasma and glandular concentrations of pituitary hormones p0021 N79-11664
- Quantitative analysis of selected bone parameters p0022 N79-11668
- Cosmic ray effects on the eyes of rats flown on COSMOS 782 p0022 N79-11669
- Effects of weightlessness on the embryonic development and aging of Drosophila p0022 N79-11670
- US experiments flown on the Soviet satellite COSMOS 936 [NASA-TM-78526] p0023 N79-11671
- The Cosmos 936 mission p0023 N79-11672
- Effects of weightlessness on the genetics and aging process of drosophila melanogaster p0023 N79-11673
- Effect of weightlessness and centrifugation (LXG) on erythrocyte survival in rats subjected to prolonged space flight p0023 N79-11674
- COSMOS 936, experiment K204: The effects of space flight on some liver enzymes concerned with carbohydrate and lipid metabolism in the rat p0023 N79-11675
- Quantitative analysis of selected bone parameters p0023 N79-11676
- Cosmic ray effects on the eyes of stationary and centrifuged rats flown on COSMOS 936, experiment K-207 p0024 N79-11678
- Subcutaneous channeling probe [NASA-CASE-ARC-11091-1] p0025 N79-11684
- Physiological responses of women to simulated weightlessness: A review of the first female bed-rest study [NASA-SP-430] p0054 N79-13686
- Indomethacin-antihistamine combination for gastric ulceration control [NASA-CASE-ARC-11118-2] p0077 N79-14755
- A simulator study of the interaction of pilot workload with errors, vigilance, and decisions [NASA-TM-78482] p0079 N79-14769
- Improved subcutaneous electrode structure [NASA-CASE-ARC-11117-1] p0084 N79-15576
- The 14th Annual Conference on Manual Control [NASA-CP-2060] p0086 N79-15588
- A safety margin and flight reference system and display for powered-lift aircraft p0090 N79-15614
- Vision p0095 N79-15894
- A dual-loop model of the human controller p0115 N79-17480
- The human as a detector of changes in variance and bandwidth p0117 N79-17496
- Speech as a pilot input medium p0119 N79-17519
- Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] p0144 N79-18580
- Effects of hypodynamic simulations on the skeletal system of monkeys p0146 N79-19021
- Aircraft flight simulation of spacelab experiment using an implanted telemetry system to obtain cardiovascular data from the monkey p0147 N79-19022
- Computer program for calculation of oxygen uptake [NASA-TM-78585] p0174 N79-21741
- Wildlife monitoring program plan [NASA-TM-78578] p0190 N79-23626
- Spacesuit mobility knee joints [NASA-CASE-ARC-11058-2] p0214 N79-24651
- A long-range and long-life telemetry data-acquisition system for heart rate and multiple body temperatures from free-ranging animals [NASA-TM-78590] p0239 N79-26762
- Biomedical ultrasonoscope [NASA-CASE-ARC-10994-2] p0240 N79-26771
- Spine immobilization method and apparatus [NASA-CASE-ARC-11167-1] p0279 N79-30921
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. HUGH L. DRYDEN FLIGHT RESEARCH CENTER, EDWARDS, CALIF. Flight test evaluation of an RAF high altitude partial pressure protective assembly [NASA-TM-72864] p0214 N79-24654
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. GODDARD INST. FOR SPACE STUDIES, NEW YORK. Accuracy of RGD approximation for computing light scattering properties of diffusing and motile bacteria p0233 A79-42448
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. System for and method of freezing biological tissue [NASA-CASE-GSC-12173-1] p0013 N79-10694
- Determination of antimicrobial susceptibilities on infected urines without isolation [NASA-CASE-GSC-12046-1] p0076 N79-14750
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity [NASA-CASE-GSC-12191-1] p0156 N79-19688
- NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LYNDON B. JOHNSON SPACE CENTER, HOUSTON, TEX. Prolonged weightlessness and calcium loss in man [IAF PAPER 78-48] p0002 N79-11219
- A review of the consequences of fluid and electrolyte shifts in weightlessness [IAF PAPER 78-50] p0002 N79-11220
- Microflora analysis of a child with severe combined immune deficiency p0004 N79-11900

CORPORATE SOURCE INDEX

The dependence of the CO₂ removal efficiency of LiOH on humidity and mesh size
[ASME PAPER 78-ENAS-5] p0006 A79-12554

Food packages for Space Shuttle
[ASME PAPER 78-ENAS-13] p0007 A79-12562

Life sciences experiments in the first Spacelab mission
[ASME PAPER 78-ENAS-26] p0008 A79-12575

Microbial Check Valve for Shuttle
[ASME PAPER 78-ENAS-27] p0008 A79-12576

Life sciences experiments mission development test program
[ASME PAPER 78-ENAS-36] p0008 A79-12583

Extended duration Orbiter life support definition
[ASME PAPER 78-ENAS-42] p0009 A79-12588

Test evaluation of space station ECLSS maintenance concepts
[ASME PAPER 78-ENAS-43] p0009 A79-12589

Response of the rat erythrocyte to ozone exposure
p0067 A79-18963

Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen
p0164 A79-30655

Man and machine design for space flight
p0300 A79-52696

Food and waste management biotechnology for the space shuttle
[IAF PAPER 79-93] p0302 A79-53294

Considerations associated with the introduction of female crewmembers in spacecraft and space stations
[IAF PAPER 79-A-22] p0303 A79-53424

Anthropometric changes in weightlessness
p0032 N79-11735

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] p0175 N79-21750

Urine collection apparatus
[NASA-CASE-MSC-18381-1] p0195 N79-23657

Operator performance and localized muscle fatigue in a simulated space vehicle control task
[NASA-TM-58220] p0259 N79-28867

BIOSPEX: Biological space experiments, a compendium of life sciences experiments carried on US spacecraft
[NASA-TM-58217] p0261 N79-29784

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. JOHN F. KENNEDY SPACE CENTER, COCOA BEACH, FLA.

Prosthesis coupling
[NASA-CASE-KSC-11069-1] p0240 N79-26772

A system for sterilizing objects
[NASA-CASE-KSC-11085-1] p0318 N79-33848

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LANGLEY RESEARCH CENTER, HAMPTON, VA.

Flight management research utilizing an oculometer
p0001 A79-10389

Monitoring the state of the human airways by analysis of respiratory sound
[IAF PAPER 78-66] p0003 A79-11227

Use of platinum electrodes for the electrochemical detection of bacteria
p0131 A79-26146

Particle deposition due to turbulent diffusion in the upper respiratory system
p0270 A79-48251

Advanced transport operation effects on pilot scan patterns
p0295 A79-51098

Hyperthermia as an Antineoplastic Treatment Modality
[NASA-CP-2051] p0017 N79-10728

Study of the use of a nonlinear, rate limited, filter on pilot control signals
p0119 N79-17515

Airline pilot scan patterns during simulated ILS approaches
[NASA-TP-1250] p0155 N79-19682

Human discomfort response to noise combined with vertical vibration
[NASA-TP-1374] p0190 N79-22761

Discomfort criteria for single-axis vibrations
[NASA-TP-1422] p0196 N79-23662

Helmet weight simulator
[NASA-CASE-LAR-12320-1] p0223 A79-25761

Effects of noise frequency on performance and annoyance
[NASA-TM-80107] p0241 N79-26781

Effect of helicopter noise on passenger annoyance
[NASA-TM-80106] p0241 N79-26782

NATIONAL AVIATION FACILITIES EXPERIMENTAL CENTER,

Models of human operators in vision dependent tasks
[NASA-CP-2103] p0317 N79-33838

Analysis of visual estimation of system state from arbitrary displays
p0317 N79-33843

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LEWIS RESEARCH CENTER, CLEVELAND, OHIO.

Digital enhancement of computerized axial tomograms
p0004 A79-11544

Overall loudness of steady sounds according to theory and experiment
[NASA-RP-1001] N79-25753

Intraocular pressure reduction and regulation system
[NASA-TM-79187] p0260 N79-28881

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALA.

Construction in space - Toward a fresh definition of the man/machine relation
p0187 A79-34985

Autoradiographic enhancement of mammograms
p0227 A79-40773

Water system virus detection
[NASA-CASE-MSC-16098-1] p0013 N79-10693

Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] p0077 N79-14756

A method for separating biological cells
[NASA-CASE-MFS-23883-1] p0175 N79-21743

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. PASADENA OFFICE, CALIF.

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] p0050 N79-12694

Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] p0076 N79-14749

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] p0077 N79-14751

Apparatus for endoscopic examination
[NASA-CASE-NPO-14092-1] p0155 N79-19678

Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] p0174 N79-20746

Compact artificial hand
[NASA-CASE-NPO-13906-1] p0214 N79-24652

Multifunctional transducer
[NASA-CASE-NPO-14329-1] p0219 N79-25737

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] p0246 N79-27836

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. WALLOPS STATION, WALLOPS ISLAND, VA.

Radar, Insect Population Ecology, and Pest Management
[NASA-CP-2070] p0147 N79-19592

NATIONAL AEROSPACE LAB., AMSTERDAM (NETHERLANDS).

A theoretical and experimental analysis of the outside world perception process
p0091 N79-15625

An analysis of helicopter pilot control behaviour and workload during instrument flying tasks
[NLR-MB-78003-U] p0124 N79-17553

Influence of motion wash-out filters on pilot tracking performance
[NLR-MB-78005-U] p0124 N79-17554

An analysis of helicopter pilot control behavior and workload during instrument flying tasks
[NLR-MB-78020-U] p0150 N79-19630

Performance and workload analysis of inflight helicopter missions
[NLR-MB-77013-U] p0308 N79-32834

A theoretical and experimental analysis of the outside world perception process
[NLR-MB-78020-U] p0309 N79-32835

NATIONAL AEROSPACE LAB., TOKYO (JAPAN).

A study of the effect of forcing function characteristics on human operator dynamics in manual control
p0086 N79-15590

NATIONAL AVIATION FACILITIES EXPERIMENTAL CENTER, ATLANTIC CITY, N. J.

Development of a performance criterion for air traffic personnel research through air traffic control simulation
[AD-A058082] p0031 N79-11727

- RNAV procedural turn anticipation techniques experiment no. 2, GAT-2A. Phase 3: 2 and 4 nmi offset tracking procedures [AD-A060501] p0085 N79-15583
- NATIONAL BIOMEDICAL RESEARCH FOUNDATION, SILVER SPRING, MD.
- The point mutation process in proteins p0205 A79-37972
- NATIONAL BIOMEDICAL RESEARCH FOUNDATION, WASHINGTON, D. C.
- Evolution of early life inferred from protein and ribonucleic acid sequences p0206 A79-37980
- NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- Arousal from sleep by emergency alarms: Implications from the scientific literature [PB-284044/5] p0051 N79-12700
- Human responses to fire: Three designs for research [PB-284959/4] p0058 N79-13708
- Proximity-vision system for protoflight manipulator arm [NASA-CR-158652] p0197 N79-24658
- Ultrasonic tissue characterization II [PB-296356/9] p0316 N79-33836
- NATIONAL DEFENCE HEADQUARTERS, OTTAWA (ONTARIO).
- The Canadian Forces Life Quality Improvement Programme p0026 N79-11693
- Between incident and accident p0292 N79-31953
- NATIONAL DEFENCE MEDICAL CENTRE, OTTAWA (ONTARIO).
- Coronary atherosclerosis and fitness for flying p0029 N79-11711
- NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION, WASHINGTON, D. C.
- Protective clothing and equipment for firefighters: Current standards and practices [PB-286990/7] p0113 N79-16557
- NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION, EAST LIBERTY, OHIO.
- Calibration of three year old child dummies [PB-288961/6] p0157 N79-19692
- NATIONAL INST. FOR PERSONNEL RESEARCH, JOHANNESBURG (SOUTH AFRICA).
- Heart rate: Physiological characteristics and quantification methods for use in behavioral studies [CSIR-SR-PERS-276] p0121 N79-17531
- NATIONAL INST. ON AGING, BALTIMORE, MD.
- Senescent changes in the ribosomes of animal cells in vivo and in vitro p0134 A79-27226
- NATIONAL PHYSICAL LAB., TEDDINGTON (ENGLAND).
- MM/I, a man - machine interface: A contribution towards a standard [NPL-CSU-2/78] p0197 N79-23669
- NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA.
- Eutrophication. Volume 2: A bibliography with abstracts [NTIS/PS-78/0771/2] p0013 N79-10695
- Eutrophication. Volume 3: A bibliography with abstracts [NTIS/PS-78/0772/0] p0013 N79-10696
- Biocompatible materials, volume 2. A bibliography with abstracts [NTIS/PS-78/0675/5] p0019 N79-10736
- Ecosystem models, volume 3. A bibliography with abstracts [NTIS/PS-78/1146/6] p0054 N79-13678
- Ecosystem models, volume 2. A bibliography with abstracts [NTIS/PS-78/1145/8] p0054 N79-13679
- The toxicology of ozone. A bibliography with abstracts [NTIS/PS-78/1120/1] p0057 N79-13705
- Information processing in humans, volume 2. A bibliography with abstracts [NTIS/PS-78/1153/2] p0058 N79-13709
- Information processing in humans, volume 3. A bibliography with abstracts [NTIS/PS-78/1154/0] p0058 N79-13710
- Human work measurement. A bibliography with abstracts [NTIS/PS-78/1197/9] p0081 N79-14781
- Stress factors on pilot performance. A bibliography with abstracts [NTIS/PS-78/1289/4] p0145 N79-18589
- Biological effects of laser radiation, volume 1. A bibliography with abstracts [NTIS/PS-79/0019/4] p0176 N79-21760
- Biological effects of laser radiation, volume 2. A bibliography with abstracts [NTIS/PS-79/0020/2] p0176 N79-21761
- Effects of fatigue on human behavior and performance. A bibliography with abstracts [NTIS/PS-79/0071/5] p0177 N79-21762
- Aircraft sonic boom: Biological effects. A bibliography with abstracts [NTIS/PS-79/0190/3] p0214 N79-24650
- Flight simulator training, volume 2. A bibliography with abstracts [NTIS/PS-79/0277/8] p0222 N79-25758
- Cardiovascular diseases, volume 3. A bibliography with abstracts [NTIS/PS-79/0063/2] p0260 N79-28874
- Altitude hypoxia, volume 1. A bibliography with abstracts [NTIS/PS-79/0427/9] p0280 N79-30927
- Altitude hypoxia, volume 2. A bibliography with abstracts [NTIS/PS-79/0428/7] p0280 N79-30928
- Biological effects of microwaves, volume 1. A bibliography with abstracts [NTIS/PS-79/0432/9] p0280 N79-30929
- Biological effects of microwaves, volume 2. A bibliography with abstracts [NTIS/PS-79/0433/7] p0280 N79-30930
- Hypothermia. A bibliography with abstracts [NTIS/PS-79/0533/4] p0308 N79-32830
- Hyperbaric oxygenation. A bibliography with abstracts [NTIS/PS-79/0744/7] p0317 N79-33837
- Human memory. A bibliography with abstracts [NTIS/PS-79/0640/7] p0318 N79-33847
- NAVAL AEROSPACE MEDICAL INST., PENSACOLA, FLA.
- Human performance in concurrent verbal and tracking tasks: A review of the literature [AD-A060493] p0085 N79-15585
- NAVAL AEROSPACE MEDICAL RESEARCH LAB., NEW ORLEANS, LA.
- Medical qualification procedures for hazardous-duty aeromedical research p0026 N79-11695
- Multiaxis dynamic response of the human head and neck to impact acceleration p0284 N79-31906
- Transient intraventricular conduction defects observed during experimental impact in human subjects p0285 N79-31907
- Potential relationship between human central nervous system injury and impact forces based on primate studies p0286 N79-31919
- The effect of impact acceleration on the electrical activity of the brain p0287 N79-31921
- NAVAL AEROSPACE MEDICAL RESEARCH LAB., PENSACOLA, FLA.
- Prevention and treatment of space sickness in Shuttle-Orbiter missions p0128 A79-24639
- Oculogravic illusion in response to straight-ahead acceleration of a CF-104 aircraft p0164 A79-30660
- Rotation at 30 RPM about the Z axis after 6 hours in the 10-deg head-down position - Effect on susceptibility to motion sickness p0165 A79-30662
- Long term pulmonary function patterns in the aviator: The thousand Aviator study p0028 N79-11708
- The relationship between Air Combat Maneuvering Range (ACMR) output measures and initial visual acquisition performance [AD-A062134] p0173 N79-20744
- Human performance in time-shared verbal and tracking tasks [AD-A070275] p0308 N79-32831
- NAVAL AIR DEVELOPMENT CENTER, WARMINSTER, PA.
- Molecular determinants for the prediction and survival of ischemic anoxic stress pathology p0027 N79-11700
- Laser eye protection for flight personnel, volume 1 [AD-A057417] p0034 N79-11747

Development of the CWU-48/P high temperature
resistant aramid knit flyer's coverall
[AD-A059128] p0059 N79-13716

Environmental test and evaluation of a molecular
sieve on-board oxygen generation system
[AD-A061531] p0125 N79-17559

Protective approaches in the moderation of the
physiological effects of extreme ambient
conditions in helicopter operations
p0149 N79-19618

Human factor engineering test and evaluation of
the US Navy LAMPS helicopter system
p0151 N79-19632

US Navy development of an On-Board Oxygen
Generation (OBOG) system
[AD-A063958] p0197 N79-24656

Thermal conduction effects in human skin. 1:
Experimental data acquisition
[AD-A068479] p0259 N79-28871

Thermal conduction effects in human skin. 3:
Influence of epidermal thickness and exposure
time
[AD-A068481] p0259 N79-28872

A human body and crew station modelling system
for motion studies
p0287 N79-31922

Some human responses to repeated +G sub z pulses
p0288 N79-31928

NAVAL AIR TEST CENTER, PATUXENT RIVER, MD.
Aircrew personnel restraint subsystems
definition of deficiencies and requirements
[AD-A058995] p0053 N79-12711

NAVAL CIVIL ENGINEERING LAB., PORT HUENEME, CALIF.
A head injury model
p0286 N79-31918

NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIF.
Human factors evaluation of the AN/UYS-21
display console
[AD-A056383] p0020 N79-10743

A preliminary investigation of aural
input/output systems for in-flight information
retrieval
[AD-A063174] p0178 N79-21770

Development of information theory concepts and
equations for human mental processing
[AD-A068606] p0260 N79-28877

Effects on A-6E bombardier/navigator flight
training with the introduction of device
2P114, A-6E weapon system trainer
[AD-A068607] p0289 N79-31933

NAVAL RESEARCH LAB., WASHINGTON, D. C.
Capabilities of radar as they might relate to
entomological studies
p0148 N79-19598

NAVAL SURFACE WEAPONS CENTER, WHITE OAK, MD.
Investigation of techniques to reduce
electrostatic discharge susceptibility of
FED's containing plastic plugs
[AD-A059982] p0093 N79-15638

NAVAL TRAINING EQUIPMENT CENTER, ORLANDO, FLA.
Compensation for transport delays produced by
computer image generation systems
[AD-A056720] p0019 N79-10738

NAVAL WEAPONS CENTER, CHINA LAKE, CALIF.
Safety evaluation tests of personal protective
equipment for ordnance operations
[AD-A058987] p0053 N79-12712

**NAVY CLOTHING AND TEXTILE RESEARCH FACILITY,
Natick, MASS.**
Aluminized firefighters' crash-rescue protective
hood: Facepiece-visor redesign study
[AD-A066492] p0223 N79-25764

Field evaluation of experimental crash-crew
firefighter's facepiece
[AD-A066544] p0223 N79-25765

Aluminized firemen's (fire proximity) handwear:
Redesign of experimental prototype
[AD-A069895] p0290 N79-31940

**NAVY CLOTHING AND TEXTILE RESEARCH UNIT, Natick,
MASS.**
Insulated firefighters' crash-crew rescue boots
and components: Field and laboratory evaluation
[AD-A068264] p0262 N79-29795

**NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER, SAN
DIEGO, CALIF.**
Relating performance in basic electricity and
electronics and A schools
[AD-A060914] p0085 N79-15584

Hemispheric asymmetry as related to pilot and
radar intercept officer performance
[AD-A068087] p0289 N79-31935

NEBRASKA UNIV., LINCOLN.
The proto-type wrist joint assembly TACPAW
(Triple Axis Common Pivot Arm Wrist), phase 2
[NASA-CR-150885] p0093 N79-15635

**NEDERLANDS INSTITUUT VOOR PRAEVENTIEVE GENEESKUNDE
TNO, LEIDEN.**
Reduced mental capacity and behavior of a rider
of a bicycle simulator under alcohol stress or
under dual task load
p0116 N79-17489

NEVADA UNIV., LAS VEGAS.
Distribution of phytoplankton in North Carolina
lakes
[PB-286387/6] p0084 N79-15573

NEW ENGLAND MEDICAL CENTER HOSPITALS, BOSTON, MASS.
Determination of antimicrobial susceptibilities
on infected urines without isolation
[NASA-CASE-GSC-12046-1] p0076 N79-14750

NEW MEXICO UNIV., ALBUQUERQUE.
Stress factors on pilot performance. Citations
from the International Aerospace Abstracts
data base
[NTIS/PS-79/0506/0] p0260 N79-28878

NEW YORK UNIV., N. Y.
Atmospheric neutrons
[NASA-CR-3126] p0211 N79-24631

NORTH CAROLINA STATE UNIV. AT RALEIGH.
A model for predicting human discomfort response
to combined noise and vertical vibration
p0156 N79-19685

NORTH CAROLINA STATE UNIV., RALEIGH.
The role of insect dispersal and migration in
population processes
p0147 N79-19593

Bacteria in a North Carolina salt marsh.
Standing crop and importance in the
decomposition of Spartina alterniflora
[PB-288816/2] p0153 N79-19668

NORTH CAROLINA UNIV., CHAPEL HILL.
Effect of ultrasonic irradiation on mammalian
cells and chromosomes in vitro
p0134 A79-27239

NORTH DAKOTA UNIV., GRAND FORKS.
Applied analysis of computer simulated
decompression profiles
p0017 N79-10722

NORTHROP CORP., HAWTHORNE, CALIF.
Prediction, evaluation, and specification of
flying qualities by means of step target
tracking
p0088 N79-15604

Error rate information in attention allocation
pilot models
p0115 N79-17483

Prediction of pilot reserve attention capacity
during air-to-air target tracking
p0116 N79-17488

NORTHWESTERN UNIV., EVANSTON, ILL.
Raman spectroscopy of biological membranes and
other biological systems
p0141 N79-18559

Dynamic measurement of human cyclofusional eye
movements
p0142 N79-18575

A three dimensional discrete element dynamic
model of the spine, head and torso
p0285 N79-31910

NOTRE DAME UNIV., IND.
Application of numerical methods to
physiological flows
p0146 N79-18945

O

OAK RIDGE NATIONAL LAB., TENN.
Emergence of biotechnology
[TID-28983] p0211 N79-24626

Dose-rate conversion factors for external
exposure to photon and electron radiation from
radioisotopes occurring in routine releases
from nuclear fuel cycle facilities
[NUREG-CR-0494] p0259 N79-28873

Mutagenic components of alternate energy sources
[CONF-780636-8] p0280 N79-30923

**OFFICE NATIONAL D'ETUDES ET DE RECHERCHES
AEROSPIRALE, PARIS (FRANCE).**

- Discrete-time pilot model p0088 N79-15601
 Discrete time modeling of heavy transport plane pilot behavior p0118 N79-17508
OFFICE OF RADIATION PROGRAMS, LAS VEGAS, NEV.
 Measurements of radiofrequency field intensity in buildings with close proximity to broadcast stations [PB-290944/8] N79-25750
OFFICE OF RADIATION PROGRAMS, SILVER SPRING, MD.
 Radiofrequency radiation levels and population exposure in urban areas of the eastern United States [PB-292855/4] p0241 N79-26779
OFFICE OF RADIATION PROGRAMS, WASHINGTON, D. C.
 Radiation protection activities, 1977 [PB-290215/3] p0176 N79-21759
OFFICE OF SCIENCE AND TECHNOLOGY, WASHINGTON, D. C.
 A technical review of the biological effects of non-ionizing radiation [PB-290166/8] p0171 N79-20728
OFFICE OF TECHNOLOGY ASSESSMENT, WASHINGTON, D. C.
 Assessing the efficacy and safety of medical technologies [PB-286929/5] p0085 N79-15580
OHIO STATE UNIV., COLUMBUS.
 Secondary visual workload capability with primary visual and kinesthetic-tactual displays p0064 A79-18220
 A comparison of kinesthetic-tactual and visual displays via a critical tracking task p0162 A79-29720
 Evaluation of kinesthetic-tactual displays using a critical tracking task p0119 N79-17516
 An investigation of the pulse-scatter imaging technique for medical ultrasonic imaging and tissue characterization p0211 N79-24628
 Techniques of cumulative quantitative characterization of the thorax using audiosonic methods p0240 N79-26769
 Combined discrete network-continuous control modeling of man-machine systems p0260 N79-28879
 Estimation of rate constants in the Michaelis-Menten model [AD-A070360] p0307 N79-32824
OHIO STATE UNIV. RESEARCH FOUNDATION, COLUMBUS.
 A formal model of the adaptive and discrete control behaviors of human operators [AD-A059039] p0059 N79-13717
OHIO UNIV., ATHENS.
 Evidence for the neural regulation of respiration During low intensity exercise in man p0144 N79-18578
 A study of the mechanism of thigmomorphogenesis in plants, with special reference to the role of ethylene and its significance to research with plants in space [NASA-CR-158506] p0190 N79-23625
OKLAHOMA UNIV. HEALTH SCIENCES CENTER, OKLAHOMA CITY.
 Effects of methylprednisolone sodium succinate on clearance of live E. coli from peripheral blood of dogs [AD-A062123] p0169 N79-20717
OREGON STATE UNIV., CORVALLIS.
 The development and evaluation of objective frequency domain based pilot performance measures in ASUPT [AD-A059477] p0080 N79-14776
 Metabolism of hydrazine [AD-A062251] p0169 N79-20716
OREGON UNIV., EUGENE.
 Time-sharing is not a unitary ability [AD-A056632] p0019 N79-10739
ORGANON DIAGNOSTICS, EL MONTE, CALIF.
 Water system virus detection [NASA-CASE-NSC-16098-1] p0013 N79-10693
OXFORD ORTHOPAEDIC ENGINEERING CENTRE (ENGLAND).
 Caloric and exercise requirements of space flight - Biostereometric results from Skylab p0128 A79-24637
- P**
- PACER SYSTEMS, INC., ARLINGTON, VA.**
 Workload and the certification of helicopters for IFR operation [AD-A072758] p0318 N79-33850
PARIS V UNIV. (FRANCE).
 The use of biostereometry in helicopter cockpit design p0150 N79-19629
PARIS-VAL DE MARNE UNIV., CRETEIL (FRANCE).
 Abundance of organic compounds photochemically produced in the atmospheres of the Outer Planets p0210 A79-39075
PENNSYLVANIA STATE UNIV., UNIVERSITY PARK.
 Effects of magnesium, calcium, and serum on reversion of stable L-forms p0131 A79-26140
 Minute tubular forms in soil p0297 A79-51698
 Attachment to autoclaved soil of bacterial cells from pure cultures of soil isolates p0297 A79-51701
 Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-151853] p0051 N79-12697
 Evaluation of biofeed therapy [PB-287777/1] p0123 N79-17543
 Evaluation of clinical biofeedback [PB-287776/9] p0123 N79-17544
 A comparison of sweating responses in men and women before and after acclimation to humid heat p0175 N79-21752
 X-ray backscatter imaging p0176 N79-21754
 Purification and cultivation of human pituitary growth hormone secreting cells [NASA-CR-160242] p0219 N79-25736
PENNSYLVANIA UNIV., PHILADELPHIA.
 Serendipitous solution to the problem of culturing Arabidopsis plants in sealed containers for spaceflights of long duration p0229 A79-41704
 Importance of temperature control for HEFLEX, a biological experiment for Spacelab 1 p0230 A79-41716
 Analysis of inert gas exchange in the middle ear p0017 N79-10723
 Analysis and validation of human biodynamic models [AD-A059013] p0058 N79-13714
 Classical theory of microwave interactions with biological systems p0082 N79-15556
 Metal bioelectrode polarization: A frequency and time domain analysis p0176 N79-21755
 Oxygen delivery in the hypoxic perfused heart: Relation to functional and metabolic changes p0307 N79-32825
PERCEPTRONICS, INC., WOODLAND HILLS, CALIF.
 Adaptive estimation of information values in continuous decision making and control of advanced aircraft [AD-A069741] p0282 N79-30941
PITTSBURGH UNIV., PA.
 Effect of optical magnification on the perception of displayed orientation [AD-A065949] p0196 N79-23660
PLANNING RESEARCH CORP., KENNEDY SPACE CENTER, FLA.
 Advanced life support equipment for nitrogen tetroxide environments p0169 N79-20432
POLYTECHNIC INST. OF NEW YORK.
 Acoustic attitude orientation p0314 N79-33816
PRINS MAURITS LAB. TNO, RIJSWIJK (NETHERLANDS).
 Percutaneous absorption of toxic agents. Part 2: The nerve bases and some other toxic organophosphates. A survey of the literature. [PML-1978-9] p0123 N79-17542
PROFESSIONAL STAFF ASSOCIATION OF THE RANCHO LOS AMIGOS HOSPITAL, INC., DOWNEY, CALIF.
 Effects of oxides on nitrogen, Carbon monoxide and photochemical oxidants on the ECG during exercise and on cardiopulmonary function [PB-291595/7] p0177 N79-21763
PURDUE UNIV., LAFAYETTE, IND.
 An illness-injury severity index

Microwave frequencies and the structure of the double helix p0050 N79-12688
 Pilot-optimal augmentation synthesis p0082 N79-15559
 Advanced industrial robot control systems p0088 N79-15603
 The relationship between adult articular cartilage thickness and dynamic loads of a uniaxial joint p0113 N79-16558
 A mathematical scheme for predicting the electro-acoustic frequency response of hearing aid receiver-earmold-ear systems p0154 N79-19671
 Magnitude estimation as a hearing aid selection procedure p0154 N79-19673
 p0246 N79-27838

Q

QUEEN ELIZABETH COLL., LONDON (ENGLAND).
 Determination of bound water in biological materials from dielectric measurements p0082 N79-15557

R

RANCHO LOS AMIGOS HOSPITAL, INC., DOWNEY, CALIF.
 Computer quantitation of coronary angiograms p0293 A79-51030
 RAND CORP., SANTA MONICA, CALIF.
 Individual differences in knowledge acquisition from maps [AD-A065040] p0196 N79-23663
 RASOR ASSOCIATES, INC., SUNNYVALE, CALIF.
 Noninvasive assessment of pulmonary hypertension using bubble ultrasonic ringing (BURP) method, part 2 [PB-283935/5] p0051 N79-12699
 REHABILITATIONSKLINIK LOIPL,
 BISCHOFSWIESER-BERCHTESGADEN (WEST GERMANY).
 Potential relationship between human central nervous system injury and impact forces based on primate studies p0286 N79-31919
 RENSSELAER POLYTECHNIC INST., TROY, N. Y.
 Effects of low temperature on *in vivo* and *in vitro* protein synthesis in *Escherichia coli* and *Pseudomonas fluorescens* p0131 A79-26141

RESEARCH INST. OF NATIONAL DEFENCE, STOCKHOLM (SWEDEN).
 Effect on mice of microwaves in the non-thermal intensity region. Respiration, rectal temperature and mental reaction [FOA-C-54021-H2(H6)] p0120 N79-17523
 Task complexity and 24-hr performance patterns in morning and evening active subjects [FOA-C-52001-H6] p0122 N79-17537
 Quantification and validation of percept-genetic defense mechanism. A hierarchical analysis of behavior of pilots under stress [FOA-C-55020-H6] p0124 N79-17555
 Perceived quantization error. Effect of quantization function, reconstruction function and number of levels [FOA-C-56015-H9] p0124 N79-17556
 Shalit Perceptual Organisation and Reduction Questionnaire (SPORQ): The instrument, design, administration and scoring [FOA-C-55021-H6] p0249 N79-27859
 Biologically active short-chain peptides [FOA-C-40063-C1] p0261 N79-29785
 Human processing of information and the computerized mode of presentation: Ergonomic parameters [FOA-C-56018-H9] p0263 N79-29797
 Shalit Perceptual Organization and Reduction Questionnaire (SPORQ). Report 2: Characteristics and reliability [FOA-C-55031-H6] p0309 N79-32836
 RHODE ISLAND UNIV., KINGSTON.
 General methods to enable robots with vision to acquire, orient, and transport workpieces [PB-287199/4] p0113 N79-16556

RICE UNIV., HOUSTON, TEX.
 The dependence of the CO₂ removal efficiency of

LiOH on humidity and mesh size [ASME PAPER 78-ENAS-5] p0006 A79-12554
 Trace contaminant studies of HSC adsorbent [NASA-CR-160148] p0177 N79-21769
 Studying the state of cellular metal ions by the extended X-ray absorption fine structure [AD-A069799] p0279 N79-30914
 A nonlinear mapping approach to discrimination of sleep stages from the human electroencephalogram p0314 N79-33817
 ROCHESTER UNIV., N. Y.
 Noninvasive ultrasonic blood flow characterization p0017 N79-10726
 Diffraction-based characterization of biological tissue with ultrasound p0054 N79-13683
 Studies of metabolism, function and mechanism of destruction of red cells [AD-A070240] p0315 N79-33828
 Metabolic and physical scaling in microwave/radiofrequency bioeffects studies [UR-3490-1561] p0316 N79-33831
 ROCKWELL INTERNATIONAL CORP., DOWNEY, CALIF.
 Simulated EVA operation of a remote connector assembly test report [NASA-CR-161167] p0156 N79-19687
 ROSENSTEIN SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES, MIAMI, FLA.
 Nitrogen fixation with photosynthetic marine microorganisms [PB-286000/5] p0083 N79-15570
 Nitrogen fixation with photosynthetic marine microorganisms [PB-287590/4] p0120 N79-17525
 ROSWELL PARK MEMORIAL INST., BUFFALO, N. Y.
 An approach to the origin of self-replicating system. I - Intermolecular interactions p0204 A79-37948
 ROYAL AIR FORCE, FARNBOROUGH (ENGLAND).
 Mechanics of mammalian lung p0247 N79-27844
 ROYAL AIR FORCE, HALTON (ENGLAND).
 Injury mechanisms analysis in aircraft accidents p0286 N79-31913
 ROYAL AIR FORCE CENTRAL MEDICAL ESTABLISHMENT, LONDON (ENGLAND).
 The significance of I wave abnormalities p0029 N79-11713
 ROYAL AIR FORCE HOSPITAL, HALTON (ENGLAND).
 Beta-adrenoceptor antagonists: Central effects p0027 N79-11702
 ROYAL AIR FORCE INST. OF AVIATION MEDICINE, FARNBOROUGH (ENGLAND).
 Disorientation in Royal Naval helicopter pilots p0152 N79-19648
 The effect of a reclined sitting position on psychomotor performance during exposure to high, sustained +G_{sub z} acceleration [FPRC-1362] p0248 N79-27856
 The effect of acceleration and seat back angle on performance of a reaction time task [FPRC-1364] p0248 N79-27857
 The influence of seat back angle on acceleration tolerance [FPRC-1365] p0248 N79-27858
 ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH (ENGLAND).
 The physiological significance of light for human beings [RAE-LIB-TRANS-1976] p0077 N79-14757
 Investigations into the importance of the direction of centrifugal forces acting on the human body [RAE-LIB-TRANS-1945] p0077 N79-14758
 Psychological aspects of the human-operator's activity while tracking [RAE-LIB-TRANS-1979] p0079 N79-14768
 Evaluation of the amount of exposure to vibrations transmitted to the whole body case of vibrations due to a loader mounted on caterpillar tracks, a fork-lift truck and a hydraulic excavator [RAE-LIB-TRANS-1930] p0080 N79-14773
 Comparative experiments on performance and fatigue effects on pilots using tracking tests and physiological measurement parameters [RAE-LIB-TRANS-1971] p0080 N79-14774
 The influence of mechanical vibration and noise on the peripheral blood circulation at skin

- level
[RAE-LIB-TRANS-1980] p0084 N79-15578
Human factors evaluations of today's helicopters
as an aid to future systems design
p0150 N79-19627
Ultrasonic doppler directional blood flow
velocity meter
[RAE-LIB-TRANS-1918] p0279 N79-30920
The use of spinal analogue to compare human
tolerance of repeated shocks with tolerance of
vibration, part 1
p0288 N79-31926
- ROYAL NAVAL AIR MEDICAL SCHOOL, SEAFIELD PARK
(ENGLAND).**
A system of training in aviation physiology and
human factors for Army and Navy helicopter
aircrew
p0151 N79-19635
- ROYAL NAVAL PERSONNEL RESEARCH COMMITTEE, LONDON
(ENGLAND).**
Human factors. Speech communication
[PS-5/78] p0113 N79-16555
- RUSH MEDICAL CENTER, CHICAGO, ILL.**
Directional errors of movements and their
correction in a discrete tracking task
p0086 N79-15589
- RUSH-PRESBYTERIAN-SAINT LUKE'S MEDICAL CENTER,
CHICAGO, ILL.**
A quasi-linear control theory analysis of
timesharing skills
p0120 N79-17520
- RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J.**
A study of cerebral blood flow in the goat. A.
Correlations between the ventilatory and
cerebrovascular responses to carbon monoxide
inhalation. B. The dynamics of the cerebral
blood flow response to hypoxia by frequency
response analysis
p0107 N79-16510
- The effects of brain ischemia on the control of
breathing in unanesthetized goats
p0190 N79-23624
- S**
- SAINT LOUIS UNIV., MO.**
Limb blood flow - Rest and heavy exercise in
sitting and supine positions in man
p0235 A79-43208
- SAN FRANCISCO UNIV., CALIF.**
Statistical studies of animal response data from
USP toxicity screening test method
p0066 A79-18305
- Two-week studies of survivors from exposures to
pyrolysis gases
p0066 A79-18307
- Weight control and restraint of laboratory rats
p0133 A79-26584
- Effects of high-LET neon /Ne-20/ particle
radiation on the brain, eyes and other head
structures of the pocket mouse - A
histological study
p0252 A79-44798
- Space radiation dosimetry onboard COSMOS 936:
US portion of experiment K-206
p0023 N79-11677
- SAN JOSE STATE UNIV., CALIF.**
Perpetual factors involved in performance of air
traffic controllers using a microwave landing
system
p0092 N79-15628
- Vestibular influences on other sensory and motor
processes
p0094 N79-15893
- SAN JOSE STATE UNIV. FOUNDATION, CALIF.**
The role of cognitive switching in head-up
displays
[NASA-CR-3137] p0318 N79-33851
- SANDIA LABS., ALBUQUERQUE, N. MEX.**
Effect of impermeable clothing and respirator on
work performance. Part 1: Laboratory studies
[SAND-77-2132] p0034 N79-11748
- SCHOOL OF AEROSPACE MEDICINE, BROOKS AFB, TEX.**
Influence of the ambient acceleration field upon
acute acceleration tolerance in chickens
p0230 A79-41715
- A prospective medicine approach to the problem
of ischemic vascular disease in the USAP
p0027 N79-11697
- Distinguishing borderline hypertensives from
normotensives: A clinical study of 300
aircrews
p0027 N79-11699
- Psychosocial aspects of syncope and vertigo in
aircrew
p0027 N79-11701
- The prediction of the existence or nonexistence
of coronary artery disease using routine
clinical laboratory measurement
p0028 N79-11703
- Detection of coronary artery disease in
apparently healthy, asymptomatic aircrew
members using thallium-201 myocardial
perfusion scintigraphy
p0029 N79-11712
- Effect of age on relaxed +G sub z tolerance of
aircrews
p0030 N79-11719
- Reproducibility of human cardiovascular
responses to orthostatic stress
p0030 N79-11720
- Human compatibility testing of a 2-man molecular
sieve oxygen generator
[AD-A058248] p0053 N79-12710
- Minuteman missile crew fatigue and 24-hour alerts
[AD-A056561] p0056 N79-13696
- Fighter index of thermal stress: Development of
interim guidance for hot-weather USAF operations
[AD-A053471] p0056 N79-13699
- The dynamic oxygen-regulator test stand
[AD-A060978] p0125 N79-17560
- Specific findings in cardiology and pulmonary
function with special emphasis on assessment
criteria for flying
p0171 N79-20731
- Fighter index of thermal stress: Relation to
weather conditions at ATC and TAC bases
[AD-A062713] p0174 N79-20748
- Electrical parameter values of some human
tissues in the radiofrequency radiation range
[AD-A064202] p0189 N79-22754
- Hybrid computation of left ventricular
performance using noninvasive techniques
[AD-A063749] p0190 N79-22758
- Mathematical modeling of arterial oxygen
saturation and eye-level blood pressure during
+G sub Z stress
p0286 N79-31916
- SCIENCE APPLICATIONS, INC., ARLINGTON, VA.**
Image processing program completion report
[AD-A061597] p0123 N79-17549
- SCIENCE APPLICATIONS, INC., ENGLEWOOD, COLO.**
A critically annotated bibliography of the
literature on human factors in computer systems
[AD-A058081] p0052 N79-12707
- SCIENTIFIC SYSTEMS, INC., CAMBRIDGE, MASS.**
Microprocessor: Based prosthetic control
[PB-286652/3] p0113 N79-16559
- SCIENTIFIC TRANSLATION SERVICE, ANN ARBOR, MICH.**
Cell biology basis for the life of an organism
in the radiation field
[ANL-TRANS-1152] p0261 N79-29786
- SIERRA ENGINEERING CO., SIERRA MADRE, CALIF.**
Evaluation of the Sierra Engineering Company
lightweight helmet
[AD-A061799] p0157 N79-19689
- SLOAN-KETTERING INST. FOR CANCER RESEARCH, NEW YORK.**
The response of selected terrestrial organisms
to the Martian environment - A modeling study
p0136 A79-27928
- SOUTH DAKOTA UNIV., VERMILLION.**
Squalenes, phytanes and other isoprenoids as
major neutral lipids of methanogenic and
thermoacidophilic 'archaeabacteria'
p0232 A79-42274
- SOUTHAMPTON UNIV. (ENGLAND).**
The biodynamic response of the human body and
its application to standards
p0288 N79-31929
- SOUTHERN CALIFORNIA RESEARCH INST., LOS ANGELES.**
Vehicle Steering control: A model of learning
p0089 N79-15606
- SOUTHWEST RESEARCH INST., SAN ANTONIO, TEX.**
The distribution of cadmium and other metals in
human tissues
[PB-285200/2] p0057 N79-13703
- SPAR AEROSPACE PRODUCTS LTD., TORONTO (ONTARIO).**
Manned simulations of the SRMS in SIMFAC

SRI INTERNATIONAL CORP., MENLO PARK, CALIF.
 Assessment of human exposures to atmospheric benzene
 [PB-284203/7] p0051 N79-12701

Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease
 [PB-284686/3] p0052 N79-12703

Development of high-resolution ultrasonic imaging techniques for detection and clinical assessment of cardiovascular disease
 [PB-286696/0] p0085 N79-15581

Two measures of performance in a peg-in-hole manipulation task with force feedback
 p0118 N79-17506

Study of modeling and evaluation of remote manipulation tasks with force feedback
 [NASA-CR-158721] p0242 N79-26785

Study of pharmaceutical industrial problems
 [NASA-CR-160267] p0248 N79-27852

STANFORD RESEARCH INST., MENLO PARK, CALIF.
 Development of techniques to enhance man/machine communication
 [NASA-CR-157886] p0032 N79-11730

A three dimensional discrete element dynamic model of the spine, head and torso
 p0285 N79-31910

STANFORD UNIV., CALIF.
 Telemetry of intracranial pressure
 p0227 A79-41400

Quantitative analysis of mating behavior in aging male Drosophila Melanogaster
 p0252 A79-44799

Iodine imaging using spectral analysis
 p0294 A79-51034

A directional pulsed-Doppler ultrasonic blood flowmeter
 p0050 N79-12693

The development of a six degree-of-constraint robot performance evaluation test
 p0117 N79-17504

Human circadian physiology: Internal organization of temperature, sleep-wake and neuroendocrine rhythms monitored in an environment free of time cues
 p0154 N79-19670

Estimation of nerve-bundle conduction
 p0154 N79-19672

STATE UNIV. OF NEW YORK AT BUFFALO.
 Cardiopulmonary readjustments in passive tilt
 p0277 A79-50901

Study of model membrane fusion using photon correlation spectroscopy
 p0147 N79-19591

STATE UNIV. OF NEW YORK AT BUFFALO, AMHERST.
 A quasi-linear control theory analysis of timesharing skills
 p0115 N79-17479

STATE UNIV. OF NEW YORK AT STONY BROOK.
 The morphogenetic responses of cultured totipotent cells of carrot (*Daucus carota L.*) at zero gravity
 p0021 N79-11657

STILLMAN COLL., TUSCALOOSA, ALA.
 Developmental and hematological responses to low level continuous exposure of nitrogen dioxide in mice
 p0147 N79-19026

Electrophoresis pattern of serum from mice exposed to different concentrations of sulfur dioxide
 p0147 N79-19027

The effects of the pollutant, sodium cyanide, on the morphology and physiology of oedogonium cardiacum
 p0147 N79-19028

STRATHCLYDE UNIV., GLASGOW (SCOTLAND).
 A failure criterion for human, vertebral, cancellous bone
 p0285 N79-31912

SYRACUSE RESEARCH CORP., N. Y.
 Health effects associated with diesel exhaust emissions, literature review and evaluation
 [PB-289817/9] p0171 N79-20727

SYSTEM DEVELOPMENT CORP., SANTA MONICA, CALIF.
 Evaluation of four target-identification training techniques
 [AD-A061175] p0123 N79-17548

SYSTEMS CONTROL, INC., PALO ALTO, CALIF.
 Human operator identification model and related computer programs
 [NASA-CR-152237] p0112 N79-16551

SYSTEMS RESEARCH LABS., INC., DAYTON, OHIO.
 AAA gunnermodel based on observer theory
 p0087 N79-15594

The effects of closed loop tracking on a subjective tilt threshold in the roll axis
 p0090 N79-15620

Multipurpose digital switching and flight control workload
 [AD-A069606] p0281 N79-30934

SYSTEMS TECHNOLOGY, INC., HAWTHORNE, CALIF.
 Use of reward-penalty structures in human experimentation
 p0089 N79-15607

A safety margin and flight reference system and display for powered-lift aircraft
 p0090 N79-15614

Roll tracking effects of G-vector tilt and various types of motion washout
 p0091 N79-15622

Investigation of nonlinear motion simulator washout schemes
 p0091 N79-15624

The effects of alcohol on driver performance in a decision making situation
 p0092 N79-15629

A decision model applied to alcohol effects on driver signal light behavior
 p0092 N79-15630

Driver steering dynamics measured in car simulator under a range of visibility and roadmaking conditions
 p0117 N79-17493

Progress in measuring and modeling the effects of low frequency vibration on performance
 p0288 N79-31930

T

TACTICAL AIR COMMAND, Langley AFB, VA.
 Medical and operational factors of accidents in advanced fighter aircraft
 p0290 N79-31944

TACTICAL DRONE SQUADRON (11TH), DAVIS-MONTHAN AFB, ARIZ.
 A head-up display for mid-air drone recovery
 p0090 N79-15615

TECHNISCHE HOCHSCHULE, AACHEN (WEST GERMANY).
 Mechanics of breathing during graded exercise measured with the bodyplethysmograph
 p0029 N79-11709

TECHNISCHE HOCHSCHULE, DARMSTADT (WEST GERMANY).
 Reference parameters for shock inputs and shock tolerance limits
 p0284 N79-31905

TECHNISCHE HOGESCHOOL, DELFT (NETHERLANDS).
 Parameter estimation in a human operator describing function model for a two-dimensional tracking task
 p0115 N79-17481

Modelling the human operator of slowly responding systems using linear models
 p0117 N79-17492

A model of the human supervisor
 p0117 N79-17495

Vestibular models and thresholds of motion perception. Result of tests in a flight simulator
 [VTH-LR-265] p0146 N79-18595

TECHNISCHE HOGESCHOOL, EINDHOVEN (NETHERLANDS).
 Computer design synthesis of a below knee-Syme prosthesis
 p0251 A79-44300

Observability of electrical heart activity studied with singular value decomposition
 [TH-78-E-81] p0144 N79-18584

TECHNOLOGY, INC., HOUSTON, TEX.
 Food packages for Space Shuttle
 [ASME PAPER 78-ENAS-13] p0007 A79-12562

Analysis of body form using biostereometrics
 [NASA-CR-160173] p0195 N79-23654

TECHNOLOGY, INC., MOUNTAIN VIEW, CALIF.
 Support system considerations for STS biological investigations
 [ASME PAPER 78-ENAS-37] p0008 A79-12584

Analysis of population mortality kinetics with application to the longevity followup of the Navy's '1,000 aviators'	p0050 N79-12689
TECHNOLOGY, INC., SAN ANTONIO, TEX.	
Engineering test and evaluation during high G. Volume 3: Anti-G suits [AD-A059122]	p0052 N79-12706
Engineering test and evaluation during high G. Volume 2: Anti-G valves [AD-A059521]	p0081 N79-14780
TENNESSEE UNIV., KNOXVILLE.	
Erythropoietic effects of space flight	p0231 A79-42193
Estimation of the operating characteristics of item response categories, 3: The normal approach method and the Pearson system	[AD-A056747] p0145 N79-18587
Use of a computer model in the understanding of erythropoietic control mechanisms	[NASA-CR-160201] p0217 N79-25718
TEXAS CENTER FOR RESEARCH, AUSTIN.	
Simple models for the shuttle remote manipulator system	[NASA-CR-151881] p0113 N79-16554
TEXAS UNIV., DALLAS.	
Influences of physical conditioning and deconditioning on coronary vasculature of dogs	p0067 A79-18955
Early cardiovascular adaptation to zero gravity simulated by head-down tilt	[IAF PAPER 79-77] p0301 A79-53286
TEXAS UNIV., GALVESTON.	
A fast-reacting and versatile optokinetic stimulus pattern by computer graphics with application examples	p0160 A79-28993
Tissue gas and blood analyses of human subjects breathing 80% argon and 20% oxygen	p0164 A79-30655
TEXAS UNIV., HOUSTON.	
Recovery of skeletal muscle after 3 mo of hindlimb immobilization in rats	p0268 A79-47856
TEXAS UNIV. AT AUSTIN.	
Making it in academic psychology: Demographic and personality correlates of eminence	[NASA-CR-162287] p0289 N79-31932
Measurements in the laser irradiated eye	[AD-A069842] p0315 N79-33825
TEXAS UNIV. AT GALVESTON.	
The effects of high nitrogen tensions of the properties of neuronal membranes and synaptic transmission	[AD-A063856] p0213 N79-24647
Fundamental biophysical aspects of decompression sickness	[AD-A069998] p0315 N79-33827
TEXAS UNIV. HEALTH SCIENCE CENTER, DALLAS.	
ST isopotential precordial surface maps in patients with acute myocardial infarction	p0098 A79-21245
Early cardiovascular adaptation to simulated zero gravity	p0162 A79-29727
A wide aperture focussed ultrasound system for detection of breast carcinoma by ultrasonic attenuation	p0142 N79-18577
TEXAS UNIV. HEALTH SCIENCE CENTER, HOUSTON.	
The effect of infection with herpes simplex viruses types 1 and 2 on cell DNA synthesis and thymidine kinase activities in cultured human cells	p0141 N79-18558
TEXTRON BELL HELICOPTER, FORT WORTH, TEX.	
Visual requirements for the helicopter pilot	p0151 N79-19636
TOKYO UNIV. (JAPAN).	
A study of the effect of forcing function characteristics on human operator dynamics in manual control	p0086 N79-15590
Motion cue effects on human pilot dynamics in manual control	p0119 N79-17514
TOLEDO UNIV., OHIO.	
Carbohydrate metabolism of the stimulated diaphragm muscle	
TRACOR JITCO, INC., ROCKVILLE, MD.	
Chemicals identified in human biological media, a pilot literature survey	[PB-290690/7] p0214 N79-24649
Report of the Workshop on Biological Screening Tests	[PB-294303/3] p0279 N79-30916
TRANS WORLD AIRLINES, INC., KANSAS CITY, MO.	
Development opportunities in the space environment	p0095 N79-15897
TRANSPORTATION SYSTEMS CENTER, CAMBRIDGE, MASS.	
Review of chest deflection measurement techniques and transducers	[PB-283654/2] p0051 N79-12702
Effects of deceleration and rate of deceleration on live seated human subjects	[PB-284653/3] p0057 N79-13702
TRINITY UNIV., SAN ANTONIO, TEX.	
A theoretical investigation of power and control configurations for a high g-onset centrifuge drive system	[AD-A070912] p0309 N79-32841
TRW DEFENSE AND SPACE SYSTEMS GROUP, REDONDO BEACH, CALIF.	
High-speed computerized tomography	p0004 A79-12030
TUFTS UNIV., MEDFORD, MASS.	
Millimeter wave and far infrared absorption in biological systems	
Prosthetic ENG control enhancement through the application of man-machine principles	p0082 N79-15554
TUSKEGEE INST., ALA.	
Analytical modelling of load-deflection behavior of intervertebral discs subjected to axial compression	[AD-A071019] p0117 N79-17505
UMPQUA RESEARCH CO., MYRTLE CREEK, ORE.	
Microbial Check Valve for Shuttle	[ASME PAPER 78-ENAS-27] p0008 A79-12576
Water system microbial check valve development	[NASA-CR-151843] p0032 N79-11733
UNILEVER RESEARCH, VLAARDINGEN (NETHERLANDS).	
Preparation of some prostaglandin E sub 1 omega-homo-prostaglandin E sub 1 esters and their inhibiting properties on rat blood platelet aggregation	p0239 N79-26765
U	
UMPOQUA RESEARCH CO., MYRTLE CREEK, ORE.	
Microbial Check Valve for Shuttle	[ASME PAPER 78-ENAS-27] p0008 A79-12576
Water system microbial check valve development	[NASA-CR-151843] p0032 N79-11733
UNITED TECHNOLOGIES CORP., WINDSOR LOCKS, CONN.	
Challenges to life support system's future	[ASME PAPER 78-ENAS-28] p0008 A79-12577
Extended duration Orbiter life support definition	[ASME PAPER 78-ENAS-42] p0009 A79-12588
Test evaluation of space station ECLSS maintenance concepts	[ASME PAPER 78-ENAS-43] p0009 A79-12589
UNIVERSIDAD CATOLICA ANDRES BELLO, CARACAS (VENEZUELA).	
Particle deposition due to turbulent diffusion in the upper respiratory system	
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES.	
Computer quantitation of coronary angiograms	p0270 A79-48251
TOLEDO UNIV., OHIO.	
Carbohydrate metabolism of the stimulated diaphragm muscle	p0293 A79-51030

CORPORATE SOURCE INDEX

WISCONSIN UNIV. HOSPITAL, MADISON.

- Signal processing in ultrasound p0294 A79-51039
- UNIVERSITY OF SOUTHERN ILLINOIS AT CARBONDALE.
Cardiovascular, metabolic, and respiratory responses of sedentary females to equal metabolic workloads on the bicycle ergometer and treadmill p0024 N79-11681
- UNIVERSITY OF SOUTHWESTERN LOUISIANA, LAFAYETTE.
A simple model of fluid flow and electrolyte balance in the body [NASA-CR-160205] p0217 N79-25722
- UNIVERSITY OF WEST FLORIDA, PENSACOLA.
Personnel neutron monitoring in space [NASA-CR-151865] p0111 N79-16541
- UNIVERSITY OF WESTERN KENTUCKY, BOWLING GREEN.
Wavelength dependence of ultraviolet-enhanced reactivation and induction of mammalian viruses [HEW-PUB-FDA-78-8059] p0084 N79-15575
- UTAH UNIV., SALT LAKE CITY.
Clinical comparisons of pressure pulse and indicator dilution methods of determining cardiac output p0050 N79-12690
- Some recent results on the deposition of electromagnetic energy in animals and models of man p0083 N79-15563
- Time estimation as a secondary task to measure workload: Summary of research p0093 N79-15634
- Numerical studies of absorption of electro-magnetic energy by man p0110 N79-16538
- Energy transfer mechanisms in photobiological reactions [COO-875-180] p0283 N79-31898
- V**
- VALIDATED INSTRUCTION ASSOCIATES, INC., ALBION, MICH.
Masculinity, femininity, androgyny. What really works at work [AD-A061177] p0156 N79-19683
- VANDERBILT UNIV., NASHVILLE, TENN.
Autoradiographic enhancement of mammograms p0227 A79-40773
- Cardiovascular studies of reducing and oxidizing agents p0049 N79-12682
- VERMONT UNIV., BURLINGTON.
Determination of the secondary production and population dynamics of the zooplankton of the Lake Champlain ecosystem [PB-286094/8] p0084 N79-15572
- VETERANS ADMINISTRATION HOSPITAL, LITTLE ROCK, ARK.
Molecular absorption of non-ionizing radiation in biological systems p0082 N79-15553
- VETERANS ADMINISTRATION HOSPITAL, MARTINEZ, CALIF.
Response of the rat erythrocyte to ozone exposure p0067 A79-18963
- VIRGINIA COMMONWEALTH UNIV., RICHMOND.
Monitoring the state of the human airways by analysis of respiratory sound [IAF PAPER 78-66] p0003 A79-11227
- Survey of microwave and radiofrequency biological effects and mechanisms p0082 N79-15552
- VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG.
Aerodynamic forces exerted on an articulated human body subjected to windblast [AD-A059023] p0055 N79-13688
- The influence of vehicle aerodynamic and control response characteristics on driver-vehicle performance p0089 N79-15608
- Studies of limb-dislodging forces acting on an ejection seat occupant [AD-A064882] p0196 N79-23658
- VIRGINIA UNIV., CHARLOTTESVILLE.
A trade-off analysis design tool: Aircraft interior noise-motion/passenger satisfaction model p0112 N79-16549
- Thermodynamic studies on the oxygenation and subunit association of human hemoglobin p0142 N79-18576
- Analysis of visible spectra and thermodynamic parameters in hemeprotein systems p0144 N79-18579
- VIRGINIA UNIV. HOSPITAL, CHARLOTTESVILLE.
Hyperthermia in the treatment of cancer: A review of the radiobiological basis p0017 N79-10729
- VON KARMAN INST. FOR FLUID DYNAMICS,
RHODE-SAINT-GENESE (BELGIUM).
Physiological fluid dynamics [VKI-LECTURE-SERIES-32] p0247 N79-27843
- W**
- WAKE FOREST UNIV., WINSTON-SALEM, N.C.
A transient analysis of the cerebrovascular response to carbon dioxide p0111 N79-16539
- WASHINGTON UNIV., SEATTLE.
Gas exchange under environmental stress [AD-A058242] p0056 N79-13697
- Life stress, organizational stress, and job satisfaction [AD-A055153] p0057 N79-13706
- Microwave and RF dosimetry p0083 N79-15561
- Multiple tracer diffusion methods for the evaluation of cerebral capillary permeability and capillary blood flow rate in the rat p0169 N79-20712
- WATERLOO UNIV. (ONTARIO).
Vehicle Steering control: A model of learning p0089 N79-15606
- WAYNE STATE UNIV., DETROIT, MICH.
In-vivo bone strain telemetry in monkeys / nemestrina/ p0002 A79-10608
- Human factors analysis of visual distress signaling devices [AD-A064174] p0190 N79-22765
- Studies on the microwave-induced auditory effect [PB-290598/2] p0213 N79-24648
- Tolerance of the neck to indirect impact [AD-A066971] N79-25749
- Simulation of head and neck response to -G sub x and +G sub z impacts p0285 N79-31908
- WEATHER WING (5TH), Langley AFB, VA.
Minimum sea surface temperatures and associated survival times [AD-A070162] p0315 N79-33824
- WEBB ASSOCIATES, YELLOW SPRINGS, OHIO.
Anthropometric source book. Volume 1:
Anthropometry for designers [NASA-RP-1024] p0032 N79-11734
- Variability in human body size p0032 N79-11736
- Anthropometry p0032 N79-11737
- Range of joint motion p0033 N79-11740
- Human muscular strength p0033 N79-11741
- Anthropometry in sizing and design p0033 N79-11742
- Statistical considerations in man-machine designs p0033 N79-11743
- Anthropometric source book. Volume 2: A handbook of anthropometric data [NASA-RP-1024-VOL-2] p0058 N79-13711
- Anthropometric source book. Volume 3:
Annotated bibliography of anthropometry [NASA-RP-1024-VOL-3] p0058 N79-13712
- WEST VIRGINIA UNIV., MORGANTOWN.
An investigation to determine the effect of physical conditioning upon fibrinolytic reactivity in normal young men p0110 N79-16536
- Stress and fatigue in the driving environment p0211 N79-24629
- WISCONSIN UNIV. - MADISON.
Metabolic responses of ponies to treadmill exercise in hyperoxia p0049 N79-12681
- Effects of information processing requirements on reaction time of the eye [AD-A060099] p0080 N79-14778
- WISCONSIN UNIV. HOSPITAL, MADISON.
Portable device for detection of petit mal

epilepsy

p0254 A79-46226

WOOD (WILLIAM C.), MEMPHIS, TENN.

Implementation of a divisional aviation program
to decrease flight crew fatigue

p0150 N79-19624

WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS.

Impact of large scale aquatic biomass systems
[PB-282617/0]

p0013 N79-10697

WRIGHT STATE UNIV., DAYTON, OHIO.

Motion sickness in cats - A symptom rating scale
used in laboratory and flight tests

p0202 A79-37711

Y

YALE UNIV., NEW HAVEN, CONN.

A three-dimensional mathematical analogue of the
spine structure: A comprehensive approach

p0285 N79-31909

AEROSPACE MEDICINE AND BIOLOGY

A Continuing Bibliography

Abstracts
January - December 1979

TABLE OF CONTENTS

SP-7011 Supplement	Page
190	1
191	35
192	61
193	97
194	127
195	159
196	181
197	199
198	225
199	251
200	265
201	293

1. Report No. NASA SP-7011 (202)	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle AEROSPACE MEDICINE AND BIOLOGY A Cumulative Index to the 1979 Issues		5. Report Date January 1980	
7. Author(s)		6. Performing Organization Code	
9. Performing Organization Name and Address National Aeronautics and Space Administration Washington, D. C. 20546		8. Performing Organization Report No.	
12. Sponsoring Agency Name and Address		10. Work Unit No.	
		11. Contract or Grant No.	
		13. Type of Report and Period Covered	
		14. Sponsoring Agency Code	
15. Supplementary Notes			
16. Abstract			
<p>This publication is a cumulative index to the abstracts contained in the Supplements 190 through 201 of <u>Aerospace Medicine and Biology: A Continuing Bibliography</u>. It includes three indexes--subject, personal author, and corporate source.</p>			
17. Key Words (Suggested by Author(s)) Aerospace Medicine Bibliographies Biological Effects		18. Distribution Statement Unclassified - Unlimited	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 362	22. Price* \$11.00 HC

* For sale by the National Technical Information Service, Springfield, Virginia 22161

PUBLIC COLLECTIONS OF NASA DOCUMENTS

DOMESTIC

NASA distributes its technical documents and bibliographic tools to eleven special libraries located in the organizations listed below. Each library is prepared to furnish the public such services as reference assistance, interlibrary loans, photocopy service, and assistance in obtaining copies of NASA documents for retention.

CALIFORNIA

University of California, Berkeley

COLORADO

University of Colorado, Boulder

DISTRICT OF COLUMBIA

Library of Congress

GEORGIA

Georgia Institute of Technology, Atlanta

ILLINOIS

The John Crerar Library, Chicago

MASSACHUSETTS

Massachusetts Institute of Technology, Cambridge

MISSOURI

Linda Hall Library, Kansas City

NEW YORK

Columbia University, New York

OKLAHOMA

University of Oklahoma, Bizzell Library

PENNSYLVANIA

Carnegie Library of Pittsburgh

WASHINGTON

University of Washington, Seattle

NASA publications (those indicated by an "*" following the accession number) are also received by the following public and free libraries:

CALIFORNIA

Los Angeles Public Library

San Diego Public Library

COLORADO

Denver Public Library

CONNECTICUT

Hartford Public Library

MARYLAND

Enoch Pratt Free Library, Baltimore

MASSACHUSETTS

Boston Public Library

MICHIGAN

Detroit Public Library

MINNESOTA

Minneapolis Public Library

MISSOURI

Kansas City Public Library

St. Louis Public Library

NEW JERSEY

Trenton Public Library

NEW YORK

Brooklyn Public Library

Buffalo and Erie County Public Library

Rochester Public Library

New York Public Library

OHIO

Akron Public Library

Cincinnati Public Library

Cleveland Public Library

Dayton Public Library

Toledo Public Library

TENNESSEE

Memphis Public Library

TEXAS

Dallas Public Library

Fort Worth Public Library

WASHINGTON

Seattle Public Library

WISCONSIN

Milwaukee Public Library

An extensive collection of NASA and NASA-sponsored documents and aerospace publications available to the public for reference purposes is maintained by the American Institute of Aeronautics and Astronautics, Technical Information Service, 555 West 57th Street, 12th Floor, New York, New York 10019.

EUROPEAN

An extensive collection of NASA and NASA-sponsored publications is maintained by the British Library Lending Division, Boston Spa, Wetherby, Yorkshire, England. By virtue of arrangements other than with NASA, the British Library Lending Division also has available many of the non-NASA publications cited in *STAR*. European requesters may purchase facsimile copy of microfiche of NASA and NASA-sponsored documents, those identified by both the symbols "#" and "*", from: ESA - Information Retrieval Service, European Space Agency, 8-10 rue Mario-Nikis, 75738 Paris CEDEX 15, France.

National Aeronautics and
Space Administration

Washington, D.C.
20546

Official Business
Penalty for Private Use, \$300

SPECIAL FOURTH CLASS MAIL
BOOK

Postage and Fees Paid
National Aeronautics and
Space Administration
NASA-451



NASA

POSTMASTER:

If Undeliverable (Section 158
Postal Manual) Do Not Return

NASA CONTINUING BIBLIOGRAPHY SERIES

NUMBER	TITLE	FREQUENCY
NASA SP-7011	AEROSPACE MEDICINE AND BIOLOGY Aviation medicine, space medicine, and space biology	Monthly
NASA SP-7037	AERONAUTICAL ENGINEERING Engineering, design, and operation of aircraft and aircraft components	Monthly
NASA SP-7039	NASA PATENT ABSTRACTS BIBLIOGRAPHY NASA patents and applications for patent	Semiannually
NASA SP-7041	EARTH RESOURCES Remote sensing of earth resources by aircraft and spacecraft	Quarterly
NASA SP-7043	ENERGY Energy sources, solar energy, energy conversion, transport, and storage	Quarterly
NASA SP-7500	MANAGEMENT Program, contract, and personnel management, and management techniques	Annually

Details on the availability of these publications may be obtained from:

SCIENTIFIC AND TECHNICAL INFORMATION OFFICE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Washington, D.C. 20546